

CTS JG TWIST & LOCK® FITTINGS



Lead Free

The PEI Range of JG Twist & Lock® Fittings is offered in 1/2", 3/4" and 1" CTS sizes. The fittings are manufactured from high quality engineered plastic with EPDM O-Rings. Speedfit Push-in System is suitable for hot and cold water plumbing applications.

Detailed Technical Information shown on page 33.

Prices subject to change without notice.

TEE



PART NO.	SIZE CTS	BAG QTY	BOX QTY
PEI0220	1/2"	5	25
PEI0228	3/4"	2	10
PEI0236	1"	1	5

ELBOW



PART NO.	SIZE CTS	BAG QTY	BOX QTY
PEI0320	1/2"	5	40
PEI0328	3/4"	5	20
PEI0336	1"	1	10

REDUCING ELBOW



PART NO.	SIZE CTS	BAG QTY	BOX QTY
PEI212820	3/4" X 1/2"	5	25
PEI213628	1" X 3/4"	1	10

COUPLER



PART NO.	SIZE CTS	BAG QTY	BOX QTY
PEI0420	1/2"	5	40
PEI0428	3/4"	5	25
PEI0436	1"	1	15

REDUCER



PART NO.	SIZE STEM x CTS	BAG QTY	BOX QTY
PEI062820	3/4" x 1/2"	10	50
PEI063628	1" x 3/4"	5	30

REDUCING COUPLER



PART NO.	SIZE CTS	BAG QTY	BOX QTY
PEI202820	3/4" x 1/2"	5	30
PEI203628	1" x 3/4"	5	15

STEM ELBOW



PART NO.	SIZE STEM x CTS	BAG QTY	BOX QTY
PEI222020	1/2" x 1/2"	10	60
PEI222828	3/4" x 3/4"	5	25

REDUCING TEE



PART NO.	SIZE CTS	BAG QTY	BOX QTY
PEI3028A	3/4" x 3/4" x 1/2"	5	15
PEI3028B	3/4" x 1/2" x 1/2"	5	20
PEI3028C	1/2" x 1/2" x 3/4"	5	20
PEI3028D	3/4" x 1/2" x 3/4"	5	15
PEI3036A	1" x 1" x 3/4"	1	10

Sizes are listed in the following order



NEW

FEMALE CONNECTOR

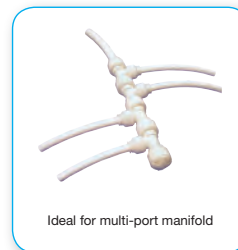


PART NO.	SIZE CTS X NPS	BAG QTY	BOX QTY
PSEI452826	3/4" x 3/4"	5	40
PEI452034	1/2" x 1/2"	5	50

STACKABLE TEE



PART NO.	SIZE CTS	BAG QTY	BOX QTY
PEI532020	1/2" x 1/2" x 1/2"	5	30
PEI532820	3/4" x 3/4" x 1/2"	5	20
PEI532828	3/4" x 3/4" x 3/4"	1	15



Ideal for multi-port manifold

Sizes for Stackable Tee are listed in the following order



SLIP CONNECTOR/BURST PIPE REPAIR FITTING



PART NO.	SIZE CTS	BAG QTY	BOX QTY
1/2SCP	1/2"	1	5
3/4SCP	3/4"	1	5

A quick and easy method of replacing burst or damaged pipe without the need to alter existing pipe work.

TEE INSTALLATION KIT



PART NO.	SIZE CTS	BAG QTY	BOX QTY
1/2TKP	1/2"	1	5
3/4TKP	3/4"	1	5

Note Tee Installation Kits do not have IAPMO or ICC approval.

Provides a simple method of breaking into and branching off a rigid run without altering existing pipe work.

END CAP



PART NO.	SIZE	BAG QTY	BOX QTY
PSEI4620	1/2"	10	150
PSEI4628	3/4"	5	80
PEI4636	1"	5	30
PSEI4620B (Blue)	1/2"	10	150
PSEI4620R (Red)	1/2"	10	150
PSEI4628B (Blue)	3/4"	5	80
PSEI4628R (Red)	3/4"	5	80

The unique feature of the Speedfit concept is the ability to easily connect and disconnect the End Cap. End Caps also provide a leak-proof seal.

They can be used to temporarily "cap-off" installations for pressure testing and rough inspections.

With Speedfit End Caps there is no need for tools, sweating or threading. They can be used with plastic or copper pipe, and when new are reusable many times over.

EASY TO CONNECT



EASY TO DISCONNECT



FEMALE SWIVEL CONNECTOR



PART NO.	SIZE CTS x NPS	BAG QTY	BOX QTY
PEISTC2034	1/2" x 1/2"	10	50

Hand tighten only, no spanner required

FEMALE SWIVEL ELBOW



PART NO.	SIZE CTS x NPS	BAG QTY	BOX QTY
PEIBTC2034	1/2" x 1/2"	10	50

Hand tighten only, no spanner required

FEMALE BALLCOCK CONNECTOR



PART NO.	SIZE CTS x UNS	BAG QTY	BOX QTY
PEISTC20C75	1/2" x 7/8" - 15/16"	10	50

Connects to toilet fill valve.

Hand tighten only, no spanner required

FEMALE BALLCOCK ELBOW



PART NO.	SIZE CTS x UNS	BAG QTY	BOX QTY
PEIBTC20C75	1/2" x 7/8" - 15/16"	10	50

Connects to toilet fill valve.

Hand tighten only, no spanner required

MALE CONNECTOR



PART NO.	SIZE CTS x NPT	BAG QTY	BOX QTY
PSEI012024	1/2" x 1/2"	10	80
PSEI012026	1/2" x 3/4"	5	60
PSEI012826	3/4" x 3/4"	5	50
PSEI013626	1" x 3/4"	2	30
PSEI013628	1" x 1"	2	20

MALE FIXED ELBOW



PART NO.	SIZE CTS	BAG QTY	BOX QTY
PSEI482024	1/2" x 1/2"	5	60

NEW SHUT OFF VALVE •



PART NO.	SIZE CTS x CTS	BAG QTY	BOX QTY
PSEISV20	1/2"	1	100
PSEISV28	3/4"	1	75

Firm 1/4 turn handle, prevents unwanted movement.

NEW LEAD FREE BRASS PRODUCTS

FOR USE WITH COPPER, PEX AND CPVC PIPE



• Dezincification Resistant

Lead Free BRASS MALE CONNECTOR



PART NO.	SIZE CTS x NPT	BAG QTY	BOX QTY
MWIO12024LF	1/2" x 1/2"	5	100
MWIO12026LF	1/2" x 3/4"	5	100
MWIO12826LF	3/4" x 3/4"	5	50

Lead Free BRASS MALE STEM ADAPTER



PART NO.	SIZE CTS x NPT	BAG QTY	BOX QTY
MWIO52024LF	1/2" x 1/2"	10	100
MWIO52826LF	3/4" x 3/4"	1	40

BLACK CTS JG TWIST & LOCK® FITTINGS



The Black PEI Range of Twist & Lock Fittings is offered in 3/4" and 1" CTS sizes. They have been specifically designed for Water Filtration/Softener Installs; however, they are also suitable for Marine and R.V. applications. The fittings are manufactured from high quality engineered plastic with EPDM O-rings. Speedfit Push-in system is suitable for hot and cold water plumbing applications.

Detailed Technical Information shown on page 33.

Prices subject to change without notice.

Not Suitable for gas.

The Brand Most Trusted by Water Professionals Worldwide



Working Pressures and Temperatures:

Application: Water

Max. Pressure
160 psi
100 psi
80 psi

Max Temperature
73°F
180°F
200°F



Do not use with gas, fuel oil or compressed air applications.

CONNECTOR



PART NO.	SIZE CTS	BAG QTY	BOX QTY
PEI0428E	3/4"	5	25
PEI0436E	1"	1	15

ELBOW



PART NO.	SIZE CTS	BAG QTY	BOX QTY
PEI0328E	3/4"	5	20
PEI0336E	1"	1	10

TEE



PART NO.	SIZE CTS	BAG QTY	BOX QTY
PEI0228E	3/4"	2	10
PEI0236E	1"	5	5

NEW

PLUG IN ELBOW



PART NO.	SIZE CTS x STEM	BAG QTY	BOX QTY
PEI222828E	3/4" x 3/4"	5	25
PEI223636E	1" x 1"	10	25

NEW

REDUCER COUPLER



PART NO.	SIZE CTS	BAG QTY	BOX QTY
PEI203628E	1" x 3/4"	5	15

MALE CONNECTOR



PART NO.	SIZE CTS x NPT	BAG QTY	BOX QTY
NEW PSEI012024E	1/2" x 1/2"	10	80
NEW PSEI012026E	1/2" x 3/4"	5	60
NEW PSEI012826E	3/4" x 3/4"	5	50
NEW PSEI013626E	1" x 3/4"	2	30
PSEI013628E	1" x 1"	2	20

Only to be used with mating plastic threads.

MALE STEM ADAPTER



PART NO.	SIZE CTS x NPT	BAG QTY	BOX QTY
PSEI052826E	3/4" x 3/4"	10	60
PSEI053628E	1" x 1"	10	40

Only to be used with mating plastic threads.

NEW

MALE FIXED ELBOW



PART NO.	SIZE CTS x NPT	BAG QTY	BOX QTY
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PSEI482024E 1/2" x 1/2" 5 60

Only to be used with mating plastic threads.

STEM ELBOW



PART NO.	SIZE CTS x STEM
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* 3/4" x 1 1/4"

STEM CONNETOR



PART NO.	SIZE CTS x STEM
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* 1" x 1 1/4"

*Available through Clack Corporation

Speedfit® Technical Checklist

CTS - SPEEDFIT TWIST & LOCK® (PEI AND PSEI RANGE) FOR PRODUCTS LISTED ON PAGES 30-32.

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

- **Sizes:** 1/2" to 1" CTS.
- **Pipes:** Speedfit fittings can be used with: PEX, Copper and CPVC Pipes conforming to ASTM Standards. Speedfit fittings cannot be used on stainless steel pipe.
- **Standards:** Speedfit products are designed and manufactured under a fully integrated system assessed by B.S.I. to BS EN ISO9001. Speedfit PEI and PSEI Fittings and Speedfit PEX Pipe are also NSF-14 and NSF-61, IAPMO and ICC listed.
- **Do not use for gas, fuel oil or compressed air applications.**
- **Working pressures and temperatures:**

Application	Max. Pressure	Max. Temperature
Water	160 psi	73° F
Water	100 psi	180° F
Water	80 psi	200° F

- **Burst Pressure (fittings):** Speedfit fittings used with copper or Speedfit PEX Pipe will withstand pressures well in excess of normal service conditions.
- **Insulation:** Comply with code requirements.
- **Minimum bend radius (PEX):**

Pipe Diameter	1/2" CTS	3/4" CTS
Min radius	7"	9"

- **Clip spacing (in inches):**
For surface mounted pipes.

Clip Spacing		
Pipe Diameter	Horizontal Run	Vertical Run
1/2" CTS	16"	20"
3/4" CTS	20"	30"
1" CTS	30"	36"

- **Expansion (PEX Pipe):** 1% on length between 68°F and 180°F.
- **Flow rates:** Comparable with metal systems.
- **Cleaners, inhibitors and descalents:** For advice on the use of additives such as corrosion inhibitors, the additive manufacturers should be consulted.
- **Paint and Chemicals.** Only use water or oil based paint. **DO NOT ALLOW CONTACT WITH** cellulose based paints, paint thinners or strippers, solder flux or acid based descalents or aggressive household cleaning products.
- **Solder Flux:** No fluxes of any type should come into contact with Speedfit products. Extreme care should be taken to ensure that no such contact takes place.
- **Chlorine.** Speedfit® is suitable for use with water supplies containing up to 4ppm of chlorine.
- **Exposure to light:** Speedfit products, when used indoors, are not affected by sunlight. When used outdoors, protect from ultraviolet light by lagging or painting.
- **Pipe clips:** Pipe clips should not be fitted any closer than 2.5 inches from the end of the fitting. Pipe should be adequately supported by pipe clips to prevent undue stress (side load) on fittings.
- **Pipe inserts: Plumbing:** John Guest recommends the use of pipe inserts for PEX pipe connections with John Guest Speedfit products in Standard Residential Plumbing (hot and cold water) installations.
Pipe inserts: Heating: John Guest requires the use of pipe inserts for PEX pipe connections with John Guest Speedfit products in all Heating installations.

- **Metal joists:** When 'cabling' plastic pipe through metal joists, ensure rubber grommets are in place to prevent damage to the pipe.
- **Connection to boilers:** A minimum 36 inches run of copper pipe must be installed between the hot water heater and the Speedfit system.
- **Connection to Hot Water Heater:** A minimum 18 inches run of copper pipe must be installed between the hot water heater and the Speedfit System.
- **Connection to copper pipe:** 18 inches is the minimum distance to make a solder connection on copper pipe inserted into a Speedfit fitting. Ensure that no solder flux comes into contact with the fitting.
- **Concrete and masonry:** Speedfit pipe and fittings can be laid in concrete and masonry providing they are installed in conduit pipe with access boxes for the fittings. This is to enable the pipe to expand and provide accessibility for both pipe and fittings. Fittings and pipe should be removable for possible replacement. Insulation is also recommended to protect against heat loss and the effects of frost. Fittings not to be used underground.
- **Electrical continuity:** If Speedfit is used in an existing metal system, electrical continuity must be reinstated.
- **Disinfection of Hot and Cold Water Systems.** Speedfit® can be disinfected after installation or as part of a routine maintenance program. The disinfection procedure must comply with code requirements. Only disinfection solutions specifically recommended as suitable for contact with plastic plumbing systems and, where necessary, employing specialist contractors may be used with Speedfit®.
- **System testing:** To ensure the pipework and fittings have been installed correctly, whether it be on a new or extended system, it is essential that the system be checked and hydraulically wet tested. Testing should be at 30 psi for 10 minutes and 150 psi for 10 minutes. This testing, combined with other relevant checks, should reveal installation problems and is regarded as good plumbing practice. However, system testing should not be regarded as a substitute for correct installation (see also "Making a Good Connection").
- **System flushing:** As is usual practice for any plumbing installation, flushing of the system prior to the use of Speedfit is recommended to remove any contaminants/chemical residue from elsewhere in the system.
- **Vermin:** Speedfit products will need special protection in vermin infested areas.
- **Tube insertion depths:**

	1/2" CTS	3/4" CTS	1" CTS
Twist and Lock Fittings	1 1/4"	1 5/8"	1 5/8"
Test Caps	1 1/8"	1 1/2"	1 1/2"
Brass Fittings	1 1/8"	1 1/2"	1 1/2"

- **Side Loads:** Fittings should not be subject to excessive side loads and they should not be used as support brackets. Tubing should be adequately supported to prevent excessive side loading.
- **Maximum torque values of threads:** in Ft lbs

	1/2" NPT	3/4" NPT	1" NPT
Plastic NPT	2	3	3
Metal NPT	3	4	4

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

John Guest USA, Inc. is not responsible for misprints or typographical errors.