

Click-to-Lock™ (PSEI and MWI Range) for Products Listed on Pages 62-65.

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

Sizes

3/8" to 1" CTS.

Pipes

Click-to-Lock products can be used with: PEX, Copper and CPVC Pipes conforming to ASTM Standards. Click-to-Lock products cannot be used on stainless steel pipe.

Standards

Click-to-Lock products are designed and manufactured under a fully integrated system assessed by B.S.I. to BS EN ISO9001. Click-to-Lock products are also 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)

Click-to-Lock product used with copper, CPVC or PEX pipe will withstand pressures well in excess of normal service conditions.

Insulation

Comply with code requirements.

Minimum bend radius with clips (PEX)

Pipe Diameter	3/8" CTS	1/2" CTS	3/4" CTS	1" CTS
Min Radius	4"	5"	7"	10"

Clip Spacing (In Inches): For surface mounted pipes.

Pipe Diameter	Clip Spacing	
	Horizontal Run	Vertical Run
3/8" CTS	12"	20"
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** jointing compounds, cellulose-based paints, paint thinners, paint strippers, solder flux, acid-based descalents or aggressive cleaning products.

Solder Flux

No fluxes of any type should come into contact with Click-to-Lock products. Extreme care should be taken to ensure that no such contact takes place.

Chlorine

Click-to-Lock products are suitable for use with water supplies containing up to 4ppm of chlorine.

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 Click-to-Lock product 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 Click-to-Lock products in all heating installations.

Connection to boilers

A minimum 36 inches run of copper pipe must be installed between the boiler and the Click-to-Lock product system.

Connection to Hot Water Heater

A minimum 18 inches run of copper pipe must be installed between the hot water heater and the Click-to-Lock product system.

Connection to copper pipe

18 inches is the minimum distance to make a solder connection on copper pipe inserted into a Click-to-Lock product. Ensure that no solder flux comes into contact with the fitting.

Concrete and masonry

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 vused underground.

Electrical continuity

If Click-to-Lock products are used in an existing metal system, electrical continuity must be reinstated.

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 "How to make a Click-to-Lock connection").

Disinfection of Hot and Cold Water Systems

Click-to-Lock products 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 Click-to-Lock products. Disinfection solutions must only come into contact with the internal (wet) surfaces of the system. If any normal dry surfaces of a Click-to-Lock product come into contact with disinfection solution, the whole fitting must be replaced immediately. The disinfection solution must be immediately flushed out at all draw out points with fresh, clean water at the end of the disinfection period. The solution must not be left in the system.

System flushing

As is usual practice for any plumbing installation, flushing of the system prior to the use of Click-to-Lock products is recommended to remove any contaminants/chemical residue from elsewhere in the system.

Vermin

Click-to-Lock products will need protection in vermin-infested areas.

Tube insertion depths

	3/8" CTS	1/2" CTS	3/4" CTS	1" CTS
PSEI	1 1/8"	1 3/8"	1 1/2"	1 1/2"
MWI	1 1/8"	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	2	3	3
Metal	3	4	4

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

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