

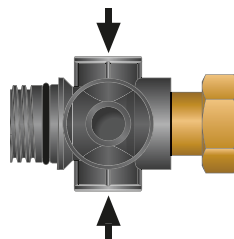
GENERAL GUIDELINES

Please review the instructions and warranty carefully. Assembly and installation are the installer's responsibility and beyond HeatLink's control.

1. Assemble the manifold under clean conditions. Any dirt on the o-rings may compromise seal. **Ensure the o-rings are clean.**
2. Use hand tightening only to connect manifold components. Use of wrenches are permitted on cross tee accessories, but do not overtighten o-rings. To tighten manifold nuts use only the manifold nut wrench.
3. Brace or support the supply and return mains parallel to the manifold and centered with the manifold's inlet and outlet. This will prevent stress and possible damage on the manifold supply and return end connections.
4. For 78200 module balancing, refer to the settings recommended by the Design Suite HeatLoss Analysis. For multiport module (78300 series) balancing, see L678300 (included in this kit).
5. When assembling **do not** crosstread manifold components.
6. Use precautions when soldering or applying heat within 16" of any manifold component.
7. Use ball valves in front of manifold for servicing requirements.
8. Prevent aggressive substances from coming into contact with the TwistSeal® Mini manifold and its accessories. This warning includes, but is not limited to, thread sealants, leak check compounds, bug sprays, lubricants, strong cleaning solvents, paints, bleaches, fluxes, etc. (see also INFO 24). However, pipe dopes and Teflon tape are permitted for use on FNPT supply end connections. No tape or dope is needed where a gasket seal is provided.
9. Protect the manifold during all phases of construction using a polyethylene sheet or an enclosure.
10. Retighten the plastic manifold nuts after the first week of system operation.

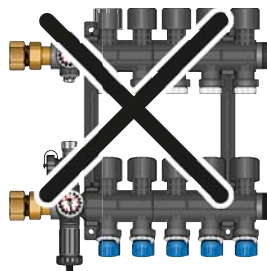
GENERAL GUIDELINES cont.

11. The ports on the cross tee are straight threads. Tightening an NPT threaded fitting into these ports can cause the tee to crack if overtightened. For pressure testing use Pressure Test Kit #79935. Only TwistSeal® Mini Manifold accessories with o-rings should be used on the cross tee ports.



12. When installing actuators on the supply manifold, the red/white shut off cap must be removed.

13. **Manifolds are not to be installed upside down.** Multiport Modules with flow meters are also not to be installed sideways.



14. Do not use TwistSeal® Mini manifolds and accessories for purposes other than those for which they were designed. Do not exceed their specifications. Failure to follow these guidelines or the product's instructions will void the warranty.
15. In case a leak develops during testing, remove pressure from system, clean the o-ring, and reapply silicon lube.
16. **A water analysis is recommended for every installation site. For warranty claims a water analysis is mandatory.**
17. Consult with your HeatLink® dealer or distributor if you have any questions regarding the operations and limits of HeatLink products. Review all instructions and warranty information carefully.

HEATLINK LIMITED WARRANTY

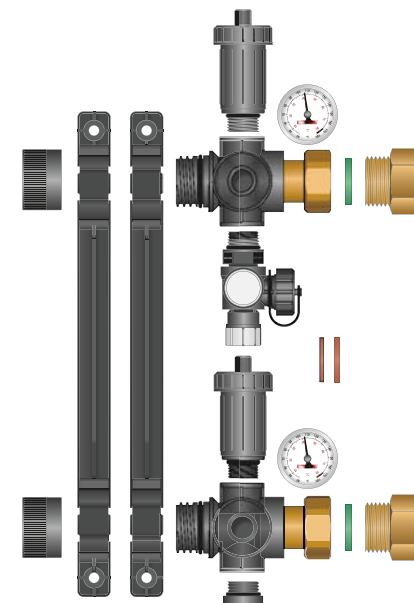
Refer to the HeatLink Limited Heating Warranty.

WARNING!

DO NOT disassemble the TwistSeal® manifold while the system is under pressure. Serious injury can result. **Use only silicone o-ring lubricant #79951 or #79952. Use of petroleum based lubricants will void the warranty.**

TwistSeal® Mini

79200 Assembly Instructions



79200 Assembly Kit Includes:

- 2 mounting brackets (#79892)
- 2 - 1" union cross tee end connections c/w gasket (#79815)
- 2 closed end caps (#79801)
- 1 lube bottle (#79952)
- 1 - 1/2" cross tee plug (#79911)
- 1 thermometer pair (#79942)
- 2 automatic air vents (#79936)
- 1 hose bib (#79934)
- 2 red rubber gaskets for air testing (#79953)
- 2 - 1" MBSP x 1" FNPT adapter (BRAADA1MG1F)

Heat Link®

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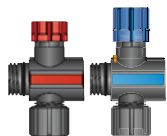
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Twist Seal® Mini

Before you begin, please read the guidelines and assembly instructions carefully. Make sure that all parts are included in the package. Assemble step by step.

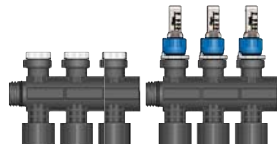
Not Included:



#78200 Deluxe Manifold Modules



#78302 Multiport Modules



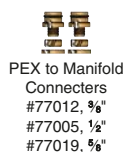
#78303 Multiport Modules



#78322 Multiport Modules



#78323 Multiport Modules



PEX to Manifold Connectors
#77012, 3/8"
#77005, 1/2"
#77019, 5/8"

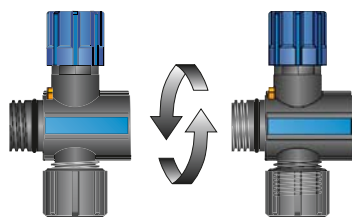


PEX to Manifold Connectors
#23015, 1/2"



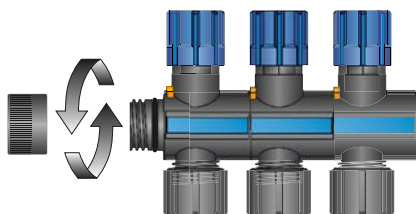
#79922 Multipurpose Wrench

1 Assemble manifold modules (not included) (Return modules shown; repeat with supply modules).

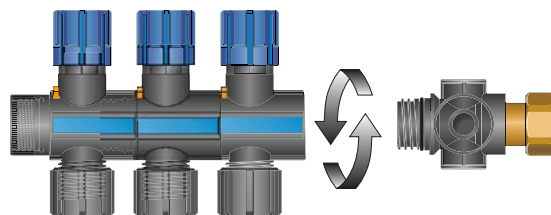


- See General Guideline #12 regarding actuator installation.

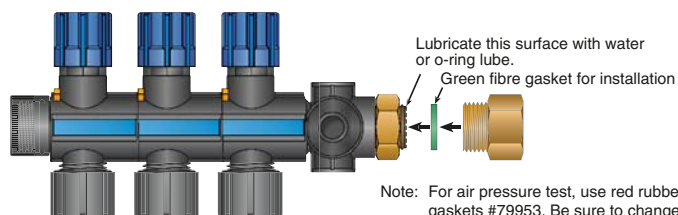
2 Connect closed end cap. (Return modules shown; repeat with supply modules).



3 Connect 1" union cross tee end connection. (Return modules shown; repeat with supply modules).

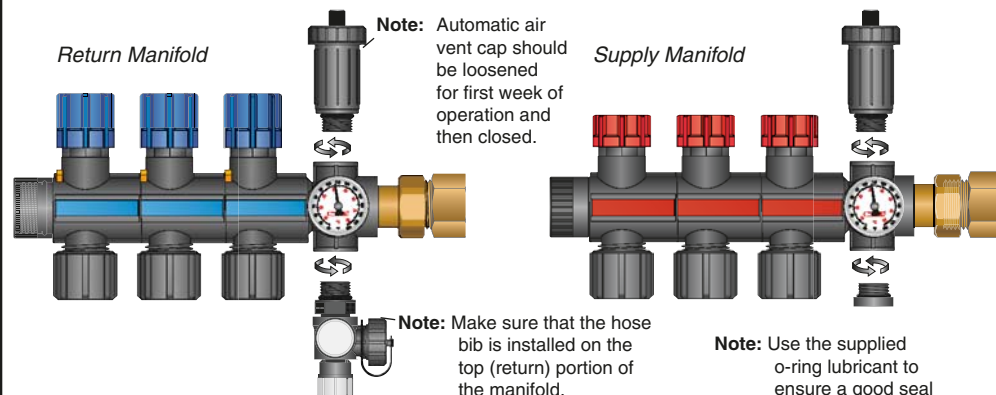


- To connect the supply end connection to the mains:
1. Lubricate the surface as indicated below with water or o-ring lubricant.
 2. Insert the gasket into the union fitting.
 3. Place the 1" MBSP x 1" FNPT adapter next to gasket
 4. Screw the swivel nut onto the adapter.
 5. Place a backup wrench on the adapter and use a wrench to tighten the swivel nut. Do not overtighten!
 6. When installing fittings into the 1" FNPT adapter, use a backup wrench.



Note: For air pressure test, use red rubber gaskets #79953. Be sure to change to green fibre gasket for system operation.

4 Install cross tee accessories (automatic air vent, thermometers, hose bib, manual air vent, and cross tee plug).



5 Snap manifold into brackets. Return on top and supply on bottom.

When placing the manifold into the supporting bracket: place the bottom snap-in lock in the bottom (braced) notch and then rotate it so that the top snaps into place. Bracket may fail if installed incorrectly.

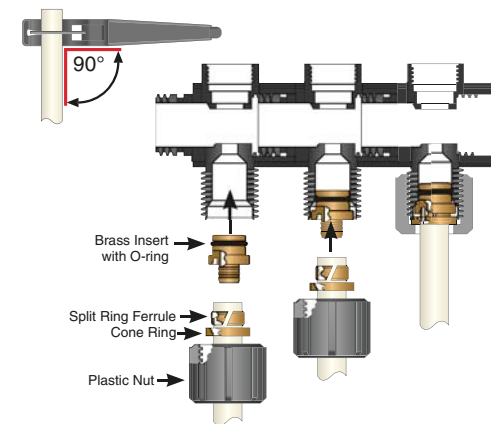
Brackets should be placed as close to ends of the manifold as possible (see complete manifold on front panel).

Manifolds with more than 5 module pairs should be supported by additional #79892 bracket(s).

Note: Supply & return piping must be supported as per General Guideline #3.



6 PEX Tubing to Manifold Connection using #77000 Series Connectors (not included)



1. Remove Plastic Manifold Nut from Manifold Module.
2. Lubricate the inside of the manifold port with silicone o-ring lubricant (#79952).
3. Cut the PEX tubing at a 90° angle.
4. Place the Plastic Manifold Nut, Cone Ring, and Split Ring Ferrule onto the PEX tubing (the beveled edge of the Cone Ring must be facing the Split Ring Ferrule).

Method A

5. Push the Brass Insert onto the PEX tubing as far as it will go.
6. Push the PEX tubing with Brass Insert as far as it will go into the manifold module. Ensure the o-ring is clean and take care not to pinch it.

Method B (illustrated)

5. Push Brass Insert as far as it will go into the manifold module. Ensure the o-ring is clean and take care not to pinch it.
6. Push PEX tubing onto the Brass Insert as far as it will go.
7. Use the multi-purpose wrench to tighten the nut. Do not overtighten.