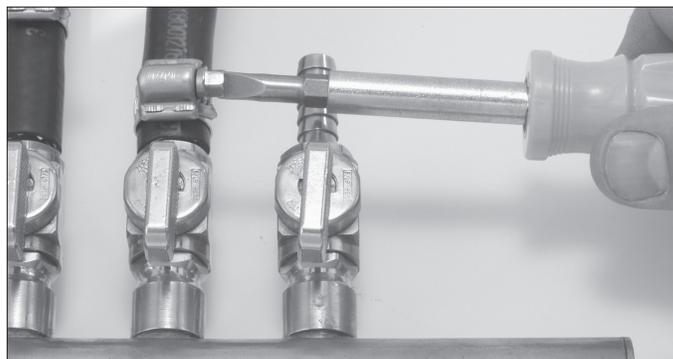
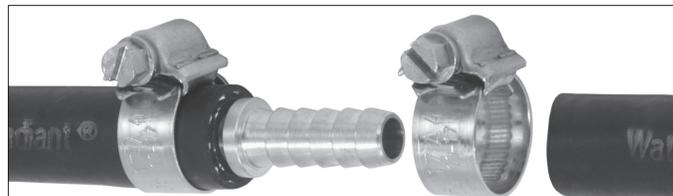


# Onix™ TorqueTite Connections

## Installation Instructions

- Cut the Onix.** Make a straight cut-off on both pieces of Onix to be spliced together. Use only approved Onix TorqueTite fittings and connections with Onix tubing. See chart for reference.
- Use the Correct Connection.** Use the correct size fitting and TorqueTite clamp with the corresponding size of Onix tubing. Improper sizing can result in leaks.
- Make the Connection**
  - Loosen the TorqueTite Clamp and slide onto the Onix.
  - Slide the Onix onto the fitting until the Onix connects with the base of the fitting or covers all five bars. It may be necessary to use water as a lubricant. Do not use any other form of lubricant with Onix or Onix connections.
  - Slide the TorqueTite clamp over both the Onix and the fitting. Place the TorqueTite clamp in the middle of the barb.
  - Tighten the TorqueTite Clamp using an in/lb torque wrench to the proper torque value. Do not use a screw gun or a standard wrench to tighten the clamp. If no torque wrench is available, approximate the torque by tightening the TorqueTite clamp to snug, then make a one-quarter turn. See chart for reference.
- Protect the Connection.** Wrap the connection with PVC electrical tape or shrink wrap if the connection is to be buried in concrete or other masonry material.
- Pressure Test.** Test all connections between 50 - 100 psi (3.4 - 6.9 bar) with either air or water (do not use both). If external temperatures are near or below freezing, do not use water, as this can result in an unwanted freeze condition.



### ⚠ CAUTION

This information is not intended to provide full installation guidelines or the experience of a trained product installer. To the extent instructions are not consistent with local building or plumbing codes, the local codes should be followed. FAILURE TO COMPLY WITH PROPER INSTALLATION INSTRUCTIONS COULD DAMAGE TUBING AND FITTINGS, CAUSING WATER DAMAGE AND/OR DAMAGE TO THE PIPING SYSTEM, WHICH CAN RESULT IN PROPERTY DAMAGE AND/OR PERSONAL INJURY.

Do not splice multiple lengths of Onix tubing together, as this will result in increased pressure drops.

Do not solder near, or overheat, any Onix connection. Extreme temperatures associated with soldering may seriously damage the Onix and will void warranty.

Repairing Onix that has been in service requires special attention, particularly when glycol has been used. Any residual amounts of glycol or any other coating or debris inside the tube must be removed and all fitting surfaces must be clean before making connections.

Use of materials not supplied by Watts to make connection may result in leaks. Watts Onix fittings are engineered to work together. Watts extends no warranty – express or implied – to any failure or damage of any kind resulting in use of materials not specified by Watts. See Onix Warranty for details.

### TorqueTite Torque Ratings

Description	Torque Value
3/8" (9.5 mm) TorqueTite Connection	35 in/lbs
1/2" (12.7 mm) TorqueTite Connection	45 in/lbs
5/8" (15.9 mm) TorqueTite Connection	45 in/lbs
3/4" (19.1 mm) TorqueTite Connection	45 in/lbs
1" (25.4 mm) TorqueTite Connection	55 in/lbs

### TorqueTite Options

Description	Qty	Order #
3/8" TorqueTite Clamp (17–19 mm)	10	81002913
	50	81002914
1/2" TorqueTite Clamp (21–23 mm)	10	81002916
5/8" TorqueTite Clamp (25–27 mm)	10	81002919
3/4" TorqueTite Clamp (29–31 mm)	10	81002922
1" TorqueTite Clamp (37–40 mm)	10	81002925



**WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

For more information: [Watts.com/prop65](http://Watts.com/prop65)

**Limited Warranty:** Watts Radiant (the "Company") warrants each product to be free from defects in material and workmanship under normal usage for a period of one year from the date of original shipment. In the event of such defects within the warranty period, the Company will, at its option, replace or recondition the product without charge.

**THE WARRANTY SET FORTH HEREIN IS GIVEN EXPRESSLY AND IS THE ONLY WARRANTY GIVEN BY THE COMPANY WITH RESPECT TO THE PRODUCT. THE COMPANY MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED. THE COMPANY HEREBY SPECIFICALLY DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.**

The remedy described in the first paragraph of this warranty shall constitute the sole and exclusive remedy for breach of warranty, and the Company shall not be responsible for any incidental, special or consequential damages, including without limitation, lost profits or the cost of repairing or replacing other property which is damaged if this product does not work properly, other costs resulting from labor charges, delays, vandalism, negligence, fouling caused by foreign material, damage from adverse water conditions, chemical, or any other circumstances over which the Company has no control. This warranty shall be invalidated by any abuse, misuse, misapplication, improper installation or improper maintenance or alteration of the product.

Some States do not allow limitations on how long an implied warranty lasts, and some States do not allow the exclusion or limitation of incidental or consequential damages. Therefore the above limitations may not apply to you. This Limited Warranty gives you specific legal rights, and you may have other rights that vary from State to State. You should consult applicable state laws to determine your rights. **SO FAR AS IS CONSISTENT WITH APPLICABLE STATE LAW, ANY IMPLIED WARRANTIES THAT MAY NOT BE DISCLAIMED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO ONE YEAR FROM THE DATE OF ORIGINAL SHIPMENT.**

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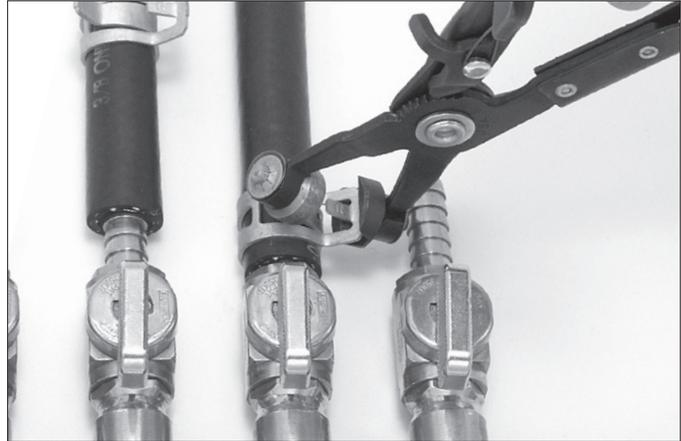
Canada: T: (905) 332-4090 • F: (905) 332-7068 • [WattsRadiant.ca](http://WattsRadiant.ca)

Latin America: T: (52) 81-1001-8600 • F: (52) 81-8000-7091 • [WattsRadiant.com](http://WattsRadiant.com)

# Onix™ SelfTite Connections

## Installation Instructions

- 1. Cut the Onix.** Make a straight cut-off on both pieces of Onix to be spliced together. Use only approved Onix SelfTite fittings and connections with Onix tubing. See chart for reference.
- 2. Use the Correct Connection.** Use the correct size fitting and SelfTite clamp with the corresponding size of Onix tubing. Improper sizing can result in leaks.
- 3. Make the Connection**
  - Slide the SelfTite Clamp onto the Onix.
  - Slide the Onix onto the fitting until the Onix connects with the base of the fitting or covers all five barbs. It may be necessary to use water as a lubricant. Do not use any other form of lubricant with Onix or Onix connections.
  - Slide the SelfTite clamp over both the Onix and the fitting. Place the SelfTite clamp in the middle of the barb.
- 4. Protect the Connection.** Wrap the connection with PVC electrical tape or shrink wrap if the connection is to be buried in concrete or other masonry material.
- 5. Pressure Test.** Test all connections between 50 - 100 psi (3.4 - 6.9 bar) with either air or water (do not use both). If external temperatures are near or below freezing, do not use water as this can result in an unwanted freeze condition. See the Onix Installation manual for further testing details.



### SelfTite Options

Description	Qty	Order #
3/8" SelfTite Clamp (19 mm)	10	81000523
	50	81000524
1/2" SelfTite Clamp (22 mm)	10	81000526
	50	81000527
5/8" SelfTite Clamp (25 mm)	10	81000529
	50	81000530
3/4" SelfTite Clamp (29 mm)	10	81000532
	50	81000533

**WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

For more information: [Watts.com/prop65](http://Watts.com/prop65)



**Limited Warranty:** Watts Radiant (the "Company") warrants each product to be free from defects in material and workmanship under normal usage for a period of one year from the date of original shipment. In the event of such defects within the warranty period, the Company will, at its option, replace or recondition the product without charge.

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The remedy described in the first paragraph of this warranty shall constitute the sole and exclusive remedy for breach of warranty, and the Company shall not be responsible for any incidental, special or consequential damages, including without limitation, lost profits or the cost of repairing or replacing other property which is damaged if this product does not work properly, other costs resulting from labor charges, delays, vandalism, negligence, fouling caused by foreign material, damage from adverse water conditions, chemical, or any other circumstances over which the Company has no control. This warranty shall be invalidated by any abuse, misuse, misapplication, improper installation or improper maintenance or alteration of the product.

Some States do not allow limitations on how long an implied warranty lasts, and some States do not allow the exclusion or limitation of incidental or consequential damages. Therefore the above limitations may not apply to you. This Limited Warranty gives you specific legal rights, and you may have other rights that vary from State to State. You should consult applicable state laws to determine your rights. **SO FAR AS IS CONSISTENT WITH APPLICABLE STATE LAW, ANY IMPLIED WARRANTIES THAT MAY NOT BE DISCLAIMED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO ONE YEAR FROM THE DATE OF ORIGINAL SHIPMENT.**

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