

TW™-Series Septic Tanks Pipe Adapter Ring



Infiltrator's Pipe Adapter Ring provides a watertight connection when using HDPE and IPEX/Ultra Rib pipe as a riser with the TW-Series Septic Tanks. The pipe adapter ring is a custom fit, which securely lock onto the TW tanks reinforcing ring (see diagram on next page). This provides an ideal connection for watertight performance.

Pipe Adapter Ring Assembly Instructions

This document provides recommended procedures for the connection of the TW-Series Pipe Adapter Ring to Infiltrator® Systems' TW-Series septic and pump tanks. These guidelines are applicable to Infiltrator's TW-300™, TW-500™, TW-900™, TW-1050™, TW-1250™, and TW-1500™ model tanks.

The intent of this document is to provide procedures for making the connection between the pipe adapter ring and the reinforcing ring.

State and/or local regulations supersede the guidelines in this document. If unsure of the requirements for a particular site, contact the local health department or permitting authority.

Materials and Equipment Needed

- TW-Series Tank
- Infiltrator Pipe Adapter Ring
- (10) 1 1/4" #14 Stainless Steel Screws
- Screw Gun
- ISI 1500 Sealant or equivalent
- Caulk Gun
- Utility Knife

General Guidelines

1. Complete riser assembly installation, including installation of reinforcing ring, pipe adapter ring, pipe(s), and lid prior to backfilling.
2. Ensure that all connection surfaces are clean and dry.
3. Sealant shall be ISI 1500 or equivalent.
4. Sealants vary between manufacturers. Sealant identified herein represents a minimum recommendation. The installer must use discretion in determining the size and amount of sealant needed to craft and maintain a watertight seal.
5. Keep sealant at a temperature (at least 60° F/16° C) that maintains its workability. Keep it free from dirt and debris that may compromise a watertight seal.
6. When applying sealant to a part, ensure continuous application to avoid gaps that may cause leaks. Apply an adequate quantity to ensure a sealed connection.

7. Physically spread the sealant into the channel on the ISI reinforcing ring to ensure that it distributes properly during assembly.

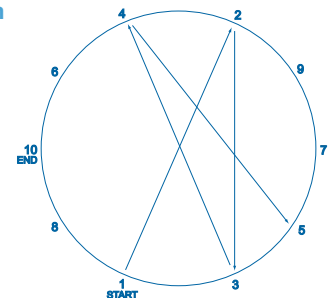
8. Ensure that screw holes on reinforcing ring and on pipe adapter ring line up.

9. Do not over tighten screws. This may damage the plastic parts being connected, causing the screw connection to fail. This may also strip the screw head. Be sure to insert screws in a "star" pattern, tightening opposite sides of the riser or pipe adapter.

Note: Use Type 304 1 1/4 #14 stainless steel screws

10. In addition to the measures shown in this document, sealant may also be applied to the exterior joint connection augment to help establish and maintain watertight connections.

Tightening in a "Star" Pattern



Installing the Pipe Adapter to the TW-Series Reinforcing Ring

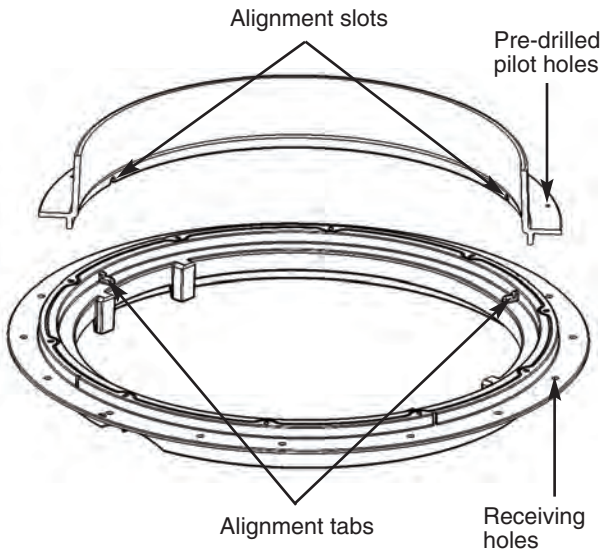
1. Install complete riser assembly prior to backfilling tank.
2. Apply ISI 1500 Adhesive Sealant in a continuous bead on the top surface of Infiltrator reinforcing ring. Sealant thickness must fill gap beneath pipe adapter.



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3. Position the alignment slots on the pipe adapter ring over the alignment tabs on the reinforcing ring, making sure the pre-drilled pilot holes on the pipe adapter are aligned with the receiving holes on the Infiltrator reinforcing ring (see diagram below).



4. Center and lock the pipe adapter ring in place on the reinforcing ring creating an even seal.

5. Fasten pipe adapter to reinforcing ring using ten #14 x 1 1/4 inch (6.2 mm x 32 mm) stainless steel screws. Tighten in star pattern.



Installing Commercial Pipe to the Pipe Adapter Ring

1. Cut HDPE, IPEX or Ultra Rib pipe along an inner corrugation to allow lid to fit properly. Cut should be smooth and even.

2. Apply generous amounts of ISI 1500 Adhesive Sealant on the pipe adapter. Set the pipe in place over the ring.

Note: Use additional ISI 1500 Adhesive to fill gap and seal space between the pipe and pipe adapter ring.



3. Fasten pipe to Infiltrator pipe adapter ring using ten #14 x 1 1/4 inch (6.2 mm x 32 mm) stainless steel screws from the inside.



4. Tighten screws in a "star" pattern, tightening screws on opposite sides of the Infiltrator pipe adapter ring. Repeat the star pattern at least twice, without over tightening screws.

Note: 24" HDPE Pipe is a loose fit connection. Make every effort to center the pipe while correctly and liberally applying sealant to the inside and outside connection surface.

5. Use the ISI TW-Series septic tank lid, or equivalent product as a lid for the pipe.

6. Backfill tank in accordance with Infiltrator's TW-Series tank installation instructions.

7. Following tank backfilling, visually examine the riser to Infiltrator reinforcing ring connection for damage resulting from fill placement. Repair or replace if damaged.



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