



Ducting Systems

Installation Instructions

The APT ducting system allows primary or secondarily contained pipe to be easily retracted and then reinstalled. This ducting acts as a conduit for the pipe to run through and should not be used as an additional containment layer. APT ducting can be air tested to check system integrity.

Warning  Follow all federal, state and local laws governing the installation of this product and its associated systems. When no other regulations apply, follow NFPA codes 30, 30A and 70 from the National Fire Protection Association. Failure to follow these codes could result in severe injury, death, serious property damage and/or environmental contamination.

Caution  The part described in this document is one element of a system. All components of this system should be installed according to the manufacturer's specifications so that the system's integrity is not compromised. Test the complete system after installation according to all pertinent local, state and federal laws to ensure its proper operation. Failure to properly verify operation could lead to environmental contamination.

Procedure

1. Pull the product pipe off of the reel, cut it to the proper length, square it off and then de-burr the end of the pipe. If you are using SC (Secondary Contained) piping, cut back the scuff guard layer to the sump wall (approximately 9" in dispenser sumps - tank sump dimensions may vary) and cut back the SC layer 4½". For further cutback details, see the process's complete description in the *DWC-XXX Double Wall Cutter (SC) Installation Instructions* or in APT's *Installation Guide Overview*. If you're using swage fittings, make those connections now.
2. Install the ducted-style pipe entry boots in the sump wall per the ducted entry boot or the ducted bulkhead boot installation instructions depending on what type of boot you are using (Figure 1).

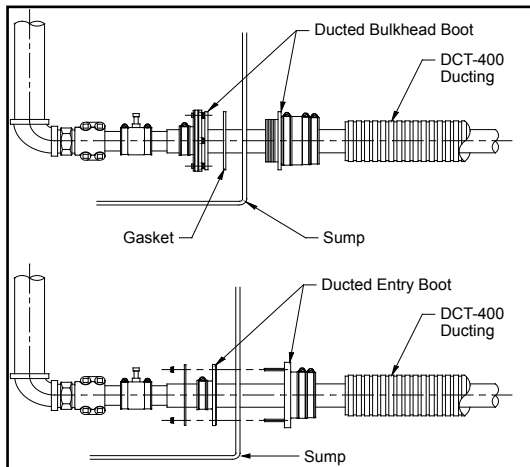


Figure 1: Ducted Entry Boot Connection

3. Pull the ducting and cut it to the proper length, but don't attach it to any entry boots at this time.

Note: If you're working with two pieces of ducting that need to be connected, use the DCT-400-F (Figure 2). Use the DCT-400-F by placing it between the two pieces of ducting and then tightening the band clamps down onto the ducting. **Do NOT over-tighten the band clamps.**

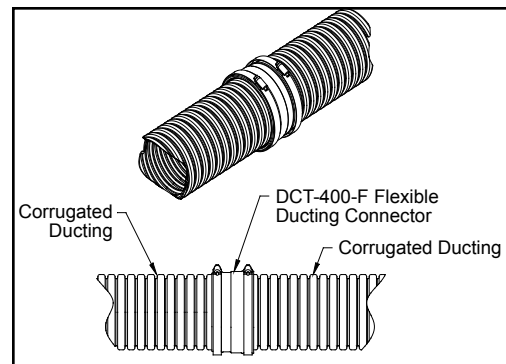


Figure 2: DCT-400-F Connector

4. Make sure your ducting has been squared off and all burrs have been removed. Insert duct bushing (Figure 3) inside the ducting (Figure 4).



Figure 3: Duct Bushing



Figure 4: Bushing in Duct End

5. Insert the duct seal (Figure 5) into the first valley behind the bushing (Figure 6).



Figure 5: Ducting Seal



Figure 6: Installing Seal on Duct

6. After the ducting seal has been installed, check to make sure seal is seated correctly in the ducting valley (Figure 7).



Figure 7: Seal Seated in Ducting Valley

7. Feed the pipe through the ducting.

Note: Attach a rounded object to the end of the pipe to keep it from catching on the ducting ribs as it is fed through.

8. Push the pipe through the entry boots.
9. If the necessary fitting connections or test boots have not already been installed, then do so now.
10. After the primary pipe has been prepared and all of the fittings have been installed, the ducting can be attached to the entry boots. Applying a thin layer of lithium grease to the ducting seal can make installation go easier. Slide the ducting into the ducted entry boot. Using the stainless steel band clamps provided, tighten the clamps to 20 in/lbs of torque.
11. If you're using APT's air-testable entry boots, check the system integrity by attaching a TRK-100 (Test Regulator Kit) to the ducted entry boot (DEB) or ducted bulkhead boot (DBB) air fitting and charge the lines to 2 to 4 PSI. Expect some initial line expansion which will result in some pressure loss. After the line pressure has stabilized, test the line for 30 minutes with no pressure drop.
12. Soap all of the boot/ducting interfaces to check for leaks. If any leaks are found, tighten the clamps and retest.
Do NOT over-tighten the band clamps.
13. After installation is complete, the backfilling process can begin. *Only backfill with pea gravel, clean compacted sand or crushed stone when using DCT-400 ducting.*
14. If you're using air-testable boots, recheck the air test after backfilling to confirm system integrity.

