

# Ducting Systems

## Installation Instructions

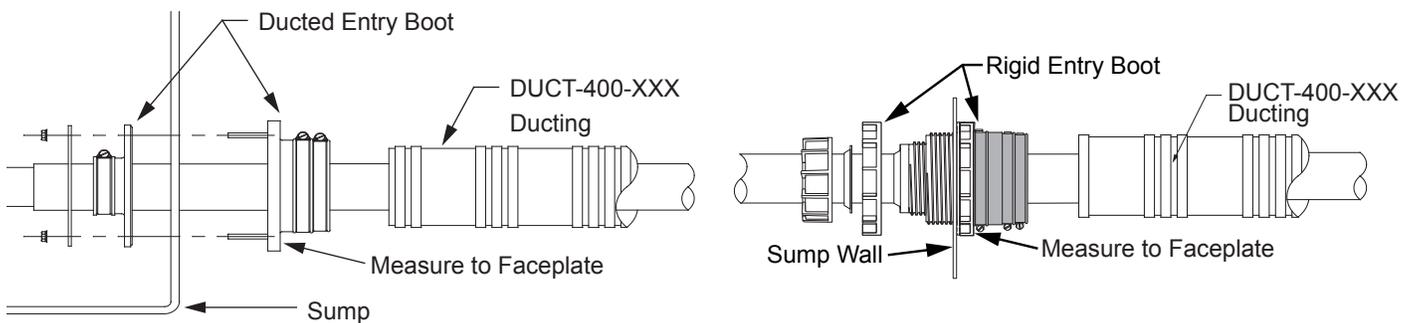
The APT™ ducting system allows primary or secondarily contained pipe to be easily retracted and then reinstalled. This ducting acts as a conduit for the pipe to run through and should not be considered an additional containment layer. APT™ ducting can be air tested to check system integrity.

**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.

### Install Ducting

1. Install the ducted-style pipe entry boots in the sump wall per the entry boot installation instructions (Figure 1). Refer to Table 1 for torque specifications.



**Figure 1: Ducted and Rigid Entry Boot Connection**

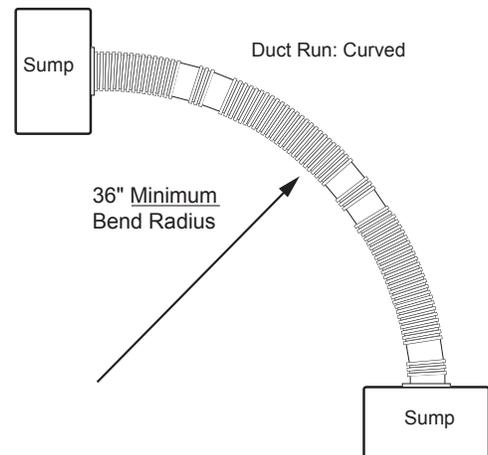
2. Pull the ducting and cut it to the length measured from faceplate to faceplate of the entry boots. Set it on the entry boots at this time.

**Note:** Cut the ducting to the measured length when installing ducting. Do NOT allow excess ducting to be installed.

**Note:** Do not tighten the ducting onto the entry boot until after the XP piping has been installed



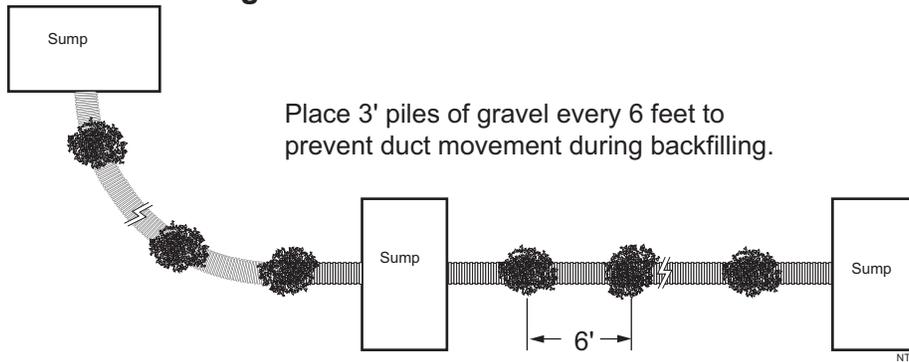
**Keep the Duct Run as Straight as Possible**



**Keep Curved Duct runs no less than 36" Bend Radius**

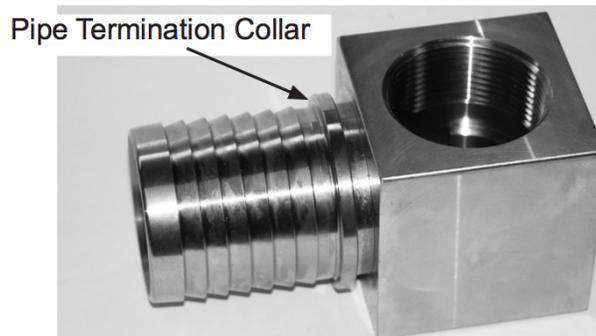
**Figure 2: Duct Layout**

## Preparing to Backfill over Ducting



## Measure and Install XP Piping

1. Run a measuring tape/line through the duct, pull it tight and measure the distance from the Pipe Termination Collars.



**Figure 3: Pipe Termination Collar Location**

**CAUTION:** Do NOT cut the pipe longer than required. Excess pipe inside of ducting can cause pipe movement due to line shock.

2. Cut the pipe to the measurement from step 1.
3. Remove the duct from the entry boots.
4. Extend 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 moves through.

5. Push the pipe through the entry boots.
6. If the necessary fitting connections or test boots have not already been installed, then do so now.
7. Attach the piping to the fitting.

**Note:** Do NOT over-tighten the band clamps. Follow the Torque guidelines in Table 1.

3. If you're using air-testable entry boots, check the system integrity by attaching a TRK-200 (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.
4. 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.**

5. After installation is complete, the backfilling process can begin. *Only backfill with pea gravel, clean compacted sand or crushed stone when using DUCT-400-XXX ducting.*

6. If you're using air-testable boots, recheck the air test after backfilling to confirm system integrity.

Application	Torque (Inch-Pounds)	Torque (N-m)
<b>Boot Fastening Nuts</b>		
HDPE without Permthane	60	7
Fiberglass without Permthane	75	9
HDPE with Permthane	55	6
Fiberglass with Permthane	55	6
<b>Band Clamp</b>		
Flexible side	25	3
Ducted side	20	2

**Table 1: Torque Specifications**

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