

Introduction

HydroStor End Caps are used to terminate the chamber rows and are also the location for inlet and outlet manifold pipe connections. As such, the end caps can be purchased with pre-fabricated stubs, or can be modified in the field to connect the inlet/outlet manifold pipe. Hydrostor End Caps are equipped with scribe lines for multiple pipe sizes making field cutting a breeze. The steps below summarize the requirements for a field fabricated stub connection into Prinsco's HydroStor HS180 & HS75 End Caps.

Procedure

Step 1:

Locate the scribe line for the size of pipe to be stubbed into the end cap at either the top or bottom of the end cap. Each scribe line is labeled with the corresponding pipe diameter. Using a marker to highlight the scribe line will aid in keeping track of the correct scribe line while cutting the end cap.



Step 2:

Lay the end cap on the ground and insert the saw blade into the starting hole and carefully start cutting, following the respective scribe line. The hole must closely match the outside of the pipe to be stubbed in. Remove cut material and dispose.

Step 3:

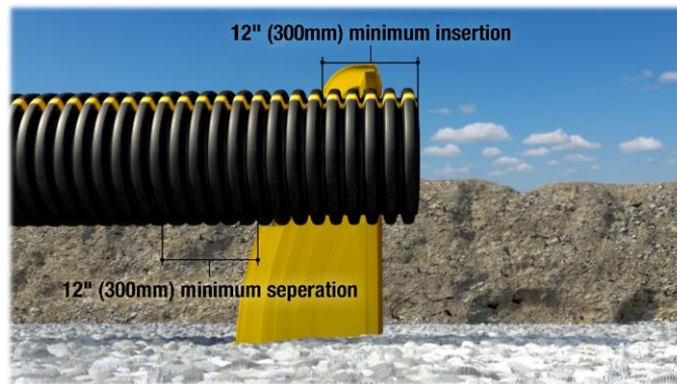
Place the end cap on the desired HydroStor chamber row. To ensure the end cap does not shift during backfilling, use 3 evenly spaced screws to properly secure the coupling between the end cap and chambers.

Screw Locations



**Step 4:**

Slide the pipe into the opening of the end cap a minimum of 12" (300 mm). If pipe resists insertion into endcap, find where the pipe is being held up and trim the end cap using the smallest increments possible.

**Proper Stub Insertion****Step 5:**

Cover the connection between the end cap and the pipe with a non-woven geotextile to keep the embedment stone from infiltrating the connection. Make sure that adequate backfill support is placed under and around the stub connection after stub is installed.

**Important Notes**

To ensure the desired field performance, the following conditions must be met:

- Maximum pipe stub diameters:
 - 30" (900 mm) for HS180 End Caps using bottom of chamber inverts, 24" (600 mm) using top of chamber inverts
 - 18" (450 mm) for all HS75 End Caps (field fabricated), 24" (600 mm) with a fabricated adapter
- Adequate backfill support is placed under and around the stub connection
- A maximum of a 1/2" (13 mm) gap is recommended between the cut hole and outside diameter of the stub