



**Uponor**

PRE-INSULATED  
PIPE SYSTEM

CONNECTION VAULT

INSTRUCTION SHEET

## Connection Vault Installation

### Tools Required

- Soft-flame torch
- Hand saw
- Abrasive cloth
- Mastic tape

### Locate and Position

1. Connection Vaults are designed for burial. Locate in suitable area so that excavation and inspection may take place in the event of damage or for modifications if desired. Position the Connection Vault in the trench to achieve proper pipe alignment.

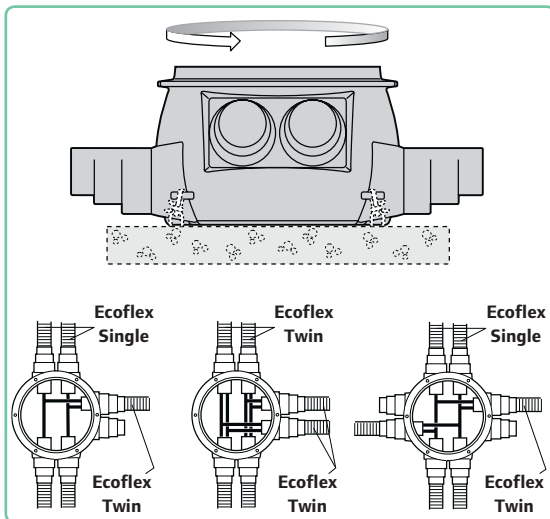


Figure 1

**Note:** If being installed in an area of high water table, install concrete anchoring pad below vault and secure.

### Cut Outlet

2. Using a hand saw, cut away end of the outlet suitable for the Ecoflex jacket's outside diameter.

**Note:** Cut away only the end of the outlet that is required to ensure a full sized opening — typically ½".

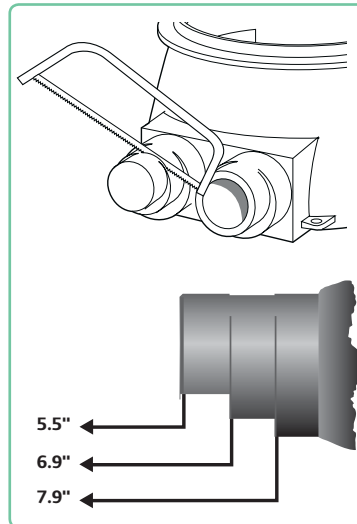


Figure 2

### Prepare Pipe

3. Install Rubber End Cap and Male Adapter Fitting before installing in the Connection Vault. Slide Connection Vault Heat Shrink Sleeve over pipe before sliding into outlet opening.

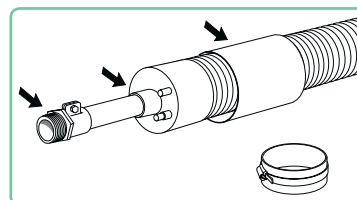


Figure 3

### Make Final Piping Connections and Test

4. Insert all pipes into the Connection Vault and perform all service pipe connections.

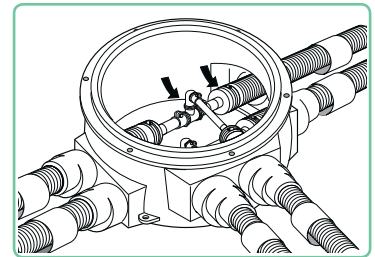


Figure 4

**Note:** Conduct the appropriate pressure test before proceeding.

### Prepare Outlet and Pipe Jacket Surfaces

5. Using an abrasive cloth, lightly sand the surface of the Connection Vault and corresponding pipe jacket to provide a rough surface for proper adhering.

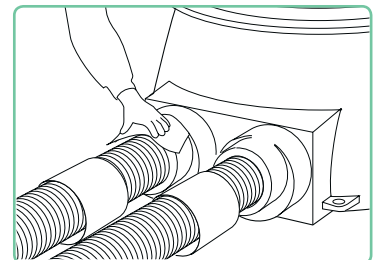


Figure 5

### Apply Mastic Tape and Preheat Vault Outlet

6. Apply mastic tape to the pipe 2 inches from the vault outlet. Using a soft-flame torch, preheat the vault outlet, being careful not to overheat.

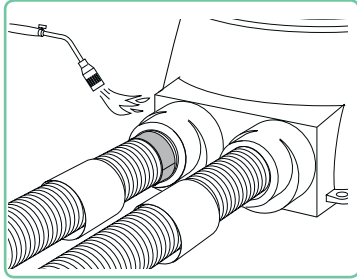


Figure 6



**Caution:** Keep flame in constant motion. Do not overheat.

### Position and Secure Heat Shrink Sleeve to Vault Outlet Only

7. Remove the protective backing from the Heat Shrink Sleeve and slide over the Wall Sleeve at least 4 inches. Using a soft-flame torch, evenly apply heat to the Heat Shrink Sleeve only on the Connection Vault outlet.

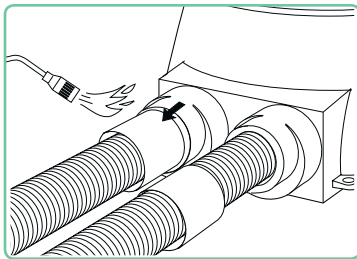


Figure 7

### Complete Heat Shrink Seal

8. Wait five minutes for the seal to cool. Secure heat shrink seal to pipe jacket following the same procedures as **Step 7**.

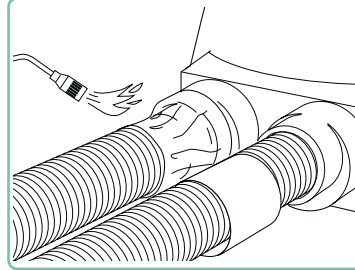


Figure 8

**Caution:** Keep flame in constant motion. Do not overheat.

### Secure Lid and Backfill

9. Clean the rubber lid gasket ensuring it is free from dirt and debris. Secure lid. Manually backfill around the Connection Vault. Be careful not to damage Heat Shrink Seal connections.

Verify that the Connection Vault remains in position during backfill. Compact soil in layers of 8 to 12 inches. Do not use mechanical compaction directly over the Connection Vault lid.

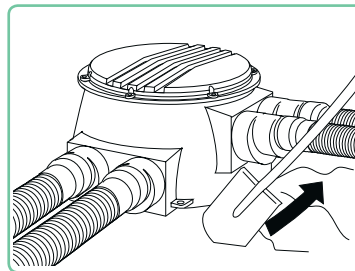


Figure 9a

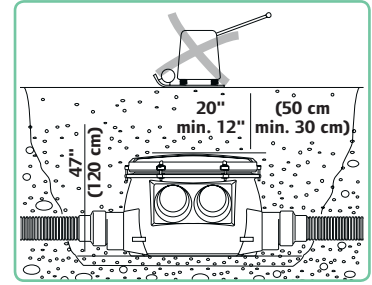


Figure 9b

**Note:** You can protect the Connection Vault from traffic loads with a concrete slab. If a load-distributing slab is not used, a Connection Vault covered with 20 inches of sand will withstand an occasional momentary load of 6,600 lbs. (e.g., a tractor passing over). The maximum stationary load permitted is 1,100 lbs. (e.g., a car parked above).

**Uponor, Inc.**  
5925 148th Street West  
Apple Valley, MN 55124 USA  
Tel: (800) 321-4739  
Fax: (952) 891-2008  
**Web: [www.uponor-usa.com](http://www.uponor-usa.com)**

**Uponor Ltd.**  
2000 Argentia Rd., Plaza 1, Ste. 200  
Mississauga, ON L5N 1W1 CANADA  
Tel: (888) 994-7726  
Fax: (800) 638-9517  
**Web: [www.uponor.ca](http://www.uponor.ca)**

**Uponor**