



# Basin installation

## 1 Installation

### 1.1 Installation precautions



**CAUTION:**

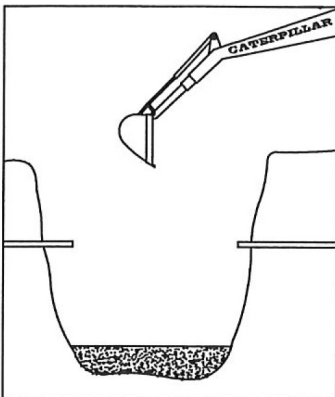
- If burial depth is greater than basin height, consult factory representative. To assure structural integrity is not compromised, reinforcement may be required.
- In freezing conditions, back fill material must be dry and free of ice. Do not use other back fill materials. In areas where the specified materials are not available, contact Xylem.
- Warranty is void if other than approved back fill materials are employed without prior written approval from Xylem.

### 1.2 Recommended back fill material

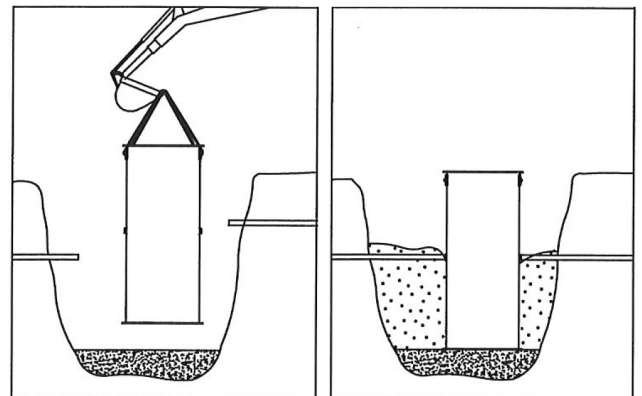
Gravel or stone to be free flowing, naturally rounded aggregate with a particle size of not less than 3/8" or not larger than 3/4" in diameter.

### 1.3 Backfill instructions

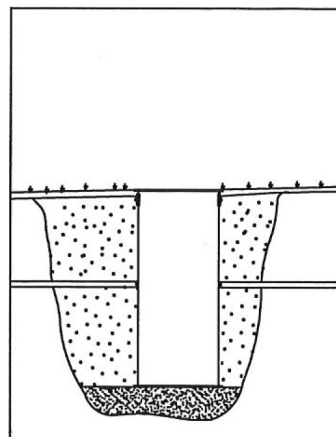
1. Examine all materials that are supplied by Xylem to make sure there are no damages due to shipping prior to installation.
2. Excavate a hole large enough to accommodate the basin, back fill material and adequate working space.



3. Prepare the bottom of the excavated hole with 6" of back fill material or a concrete pad. Check base to insure it is level and smooth.
4. Install the basin on gravel or a concrete pad. Anchor is necessary.



5. Concrete may be poured around the basin bottom if ballast is needed for buoyancy.
6. Fill basin with water before backfilling. Back fill with pea gravel 4" to 6" around the entire periphery of the basin. Compact back fill material in 12" lifts. Stop and connect piping as required.



### 1.4 Install the composite hub

1. Measure and mark correct mounting depth.
2. Cut proper size hole in basin with hole saw.

Hub size	Holesaw size
4"	4"
6"	6"
8"	8"

3. Place hub over hole, matching the curve of the hub with the curve of the basin.
4. Hold in place and mark all four (4) boltholes. Be sure hub is straight and centered over hole.
5. Place hub on basin.
6. Use 3/8"-16 x 2" long stainless steel hex bolts.
7. Place (1) 3/8" stainless steel flat washer on each bolt.
8. Insert each bolt through a hub bolt and the basin bolt hole.
9. Place (1) 3/8" stainless steel sealing washer and (1) 3/8" stainless steel hex nut on each bolt inside the basin.
10. Bolt down tightly, making sure not to over tighten.

## 1.5 Installation for 2" NPT discharge pumps

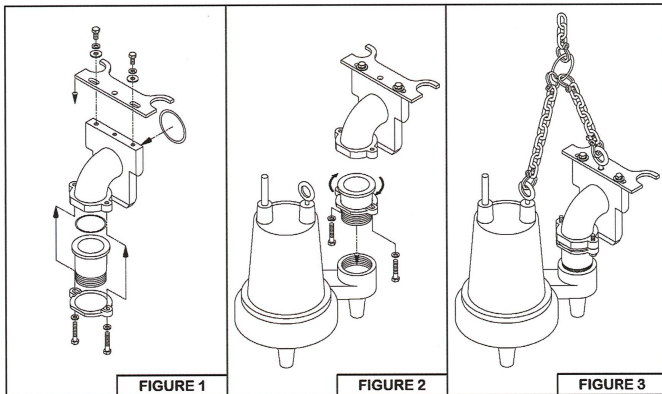
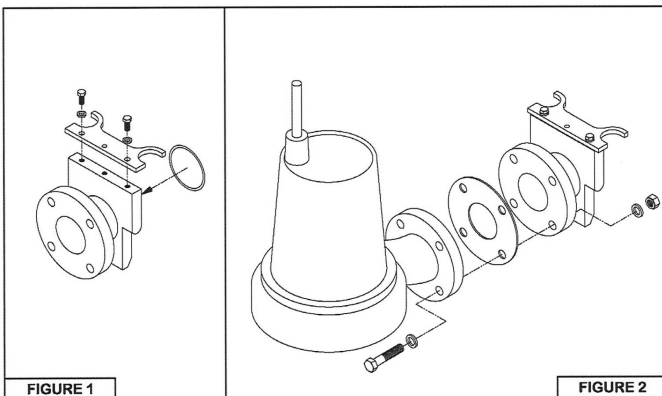


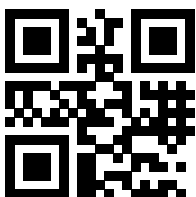
Figure 1 shows all the parts included with the pull-out flange assembly. This is the removable portion of the base elbow rail system assembly, and it is this assembly that will attach to the discharge of the pump (see figure 2). The threaded pump adapter flange will thread into the pump discharge as shown. The pump adapter flange is secured by tightening the two (2) long cap screws provided. This allows the pump to be oriented as necessary before lowering into the basin or collection tank. After attaching the pull out flange assembly to the pump, the lifting chain or cable assembly should be attached (see figure 3). This should be adequately sized to handle the weight of the pump and the pull out flange assembly as well as be long enough to allow for easy access for pulling the pump.

## 1.6 Installation for 3" and 4" ANSI flange pumps



NOTE: Pictures are 3" flange. 4" flange (8 bolt holes) assembly is the same.

Figure 1 shows all the parts included with the pull-out flange assembly. This is the removable portion of the base elbow rail system assembly, and it is this assembly that will attach to the discharge of the pump (see figure 2). The pull out flange will bolt to the pump discharge as shown. A gasket flange should be placed between the pull out flange and the pump discharge flange. After attaching the pull out flange assembly to the pump discharge flange, the lifting chain or cable assembly should be attached. This should be adequately sized to handle the weight of the pump and the pull out flange assembly as well as be long enough to allow for easy access for pulling the pump.



Xylem Inc.  
 1 Goulds Drive  
 Auburn - NY 13021  
 USA  
 Tel: +1 (866) 325-4210  
 Fax: +1 (800) 322-5877  
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