



BioStim BioPlug® CS & BioPlug® L Sewer Line Installation Instructions

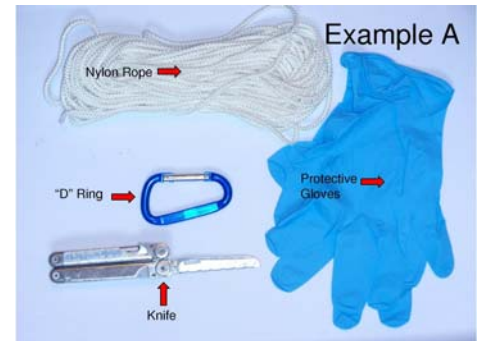
1. Installation Instructions

a. Items Needed: (See Example A)

- 1) Knife
- 2) Protective gloves
- 3) 20-30' nylon rope
- 4) "D" ring

If the manhole **does not** have a ladder wrung, you will need the following additional items to add an attachment point. (See Examples B & C)

- 1) Hammer drill
- 2) Hammer
- 3) ½" masonry bit
- 4) 20x ¼" L lag screw shield
- 5) 4x 2-3/16" eye screw



Example B



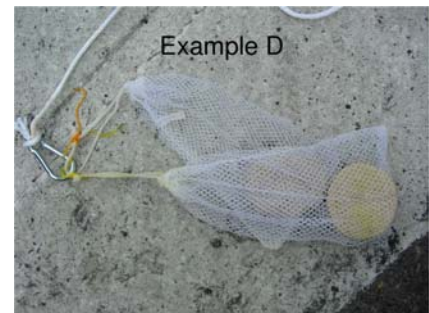
Example C



- b. **Installation Instructions:** Wear protective gloves & follow normal manhole safety procedures.

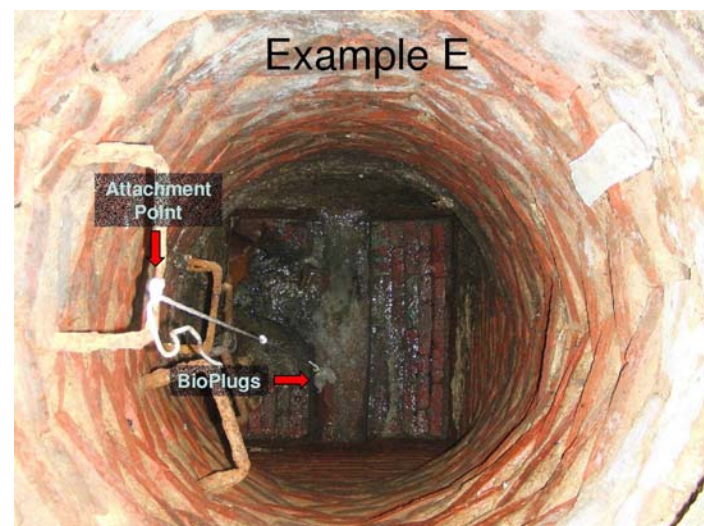
1) With Ladder Wrung

- a) Tie "D" ring to nylon rope.
- b) Remove two *BioPlugs* from packaging.
- c) Attach the mesh bags containing the two *BioPlugs* to "D" ring. (See Example D).
- d) Lower *BioPlugs* into water flow directly under attachment point. **Do not allow the plugs to go into the sewer line;** you should see the plugs dragging in the water.
- e) Tie rope to ladder wrung so that there is no slack in line between attachment point and *BioPlugs* (See Example E).



2) Without Ladder Wrung

- a) Drill hole into side wall of manhole with ½" masonry bit.
- b) Use hammer to tap the lag screw shield into drilled hole.
- c) Screw in eye screw until tight.
- d) Complete steps a) – d) "With Ladder Wrung."
- e) Tie rope to eye screw so that there is no slack in line between attachment point and *BioPlugs* (See Example E).



2. Two Week Follow-up Visit: To verify you are using the correct type of *BioPlug*, return to the sewer manhole two weeks after installation for a follow-up visit. After the follow-up visit, continue to follow the *Monthly Service* steps.

- a. Wear protective gloves & follow normal manhole safety procedures.
- b. If you are utilizing *BioPlug CS* and it is completely dissolved after two weeks you will need to switch to *BioPlug L* to adjust for high flow.
- c. If you are using the *BioPlug L* and it is not half way dissolved after two weeks, you will need to switch to the *BioPlug CS* to adjust for low flow.

3. Monthly Service

- a. Wear protective gloves & follow normal manhole safety procedures.
- b. Remove manhole cover.
- c. Pull up rope.
- d. Remove mesh bags from "D" ring. Note: *BioPlugs* should be dissolved or only small pieces left.
- e. Add two new *BioPlugs* to "D" ring. Note: Use two *BioPlugs* per manhole located UPSTREAM of the grease accumulation area.
- f. Lower *BioPlugs* back into water stream (make sure there is no remaining slack in line).
- g. Close manhole cover.