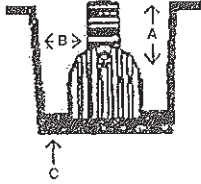


## UNDERGROUND TANK INSTALLATION INSTRUCTIONS

1

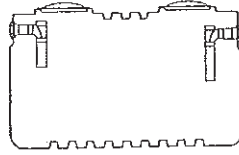
### EXCAVATION



- A. Excavate to a depth that will provide a minimum of 6" and a maximum of 30" of cover over the top of the tank. This will avoid collapse and over-expansion of the tank and possible leakage.
- B. Allow 18" to 24" on both sides and both ends of the tank. Failure to comply with allowance ranges could cause tank collapse.
- C. Bed the tank in well-packed sand- 6" minimum in soil terrain, 12" minimum in rock terrain. The tank should be installed level.

2

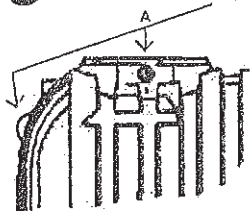
### SEPTIC TANK CONNECTIONS



- A. Septic tanks 750 gal. and larger and blue BRUISER tanks are supplied with PVC sanitary tees and adapters at the inlet and outlet. The PVC adapter has two sockets for use with either 4" schedule 40 pipe, or 4" SDR 35 pipe.
- B. Inlet and outlet piping should be solvent welded to the adapters using standard PVC cement.
- C. Tanks without PVC adapters (300 sphere, 500 Sphere, and 500 septic) use Part No. 61765 gasket kit.

3

### WATER TANK CONNECTIONS



- A. Install bulkhead fittings in either side of manway or end rib as shown.
- B. Tank must be vented.
- C. For water-tight seal, lid should be sealed with silicone caulking. Re-use stainless steel screws supplied with lid.

4

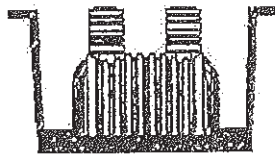
### MANHOLE EXTENSIONS



- A. Install manhole extension before you backfill.
- B. Manhole extensions are supplied with gaskets and screws. Re-use the lid gasket and screws to attach the lid at the top of the manhole extension.
- C. Note the direction of flow. The inlet is higher than the outlet.

5

### BACKFILLING EXTERIOR



- A. CAUTION: Fill tank with water as you backfill, keeping water level even with backfill level as you go to prevent possible collapse.
- B. Backfill with 12" layers and compact each layer. ALWAYS COMPACT ENDS FIRST.
- C. Tamp and compact backfill under inlet and outlet pipes.
- D. Maximum backfill over the top of the tank is 30". Mound soil over the top to provide positive drainage.

6

### BACKFILL MATERIALS

The preferred material for backfill surrounding and covering the tank is a sand/gravel mixture as described below. For blue BRUISER tanks and white cistern tanks, native soil may be used for backfill and those tanks may be left empty while backfilling. For yellow and black septic tanks, the sand/gravel mixture is required and the tanks must be filled with water during the backfilling process. BRUISER tanks and cistern tanks should be filled one-fourth full after installation.

- A. The sand/gravel mixture should be a mixture of sand and gravel, 100% smaller than 1-1/2" and about 50% smaller than 1/4".
- B. All fill should be free of any wood, masonry debris, silt or clay.

**FOR SEPTIC INSTALLATIONS, IT IS IMPORTANT TO CONTACT YOUR LOCAL OR STATE SANITARIAN REGARDING APPROVED INSTALLATION PROCEDURES.**

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