

Jellyfish Installation

The installation of the concrete Jellyfish Filter should conform in general to state highway, provincial or local specifications for the installation of maintenance holes. Selected sections of a general specification that are applicable are summarized in the following sections.

Excavation

- Excavation and general site preparation for the installation of the Jellyfish filter system should conform to state highway, provincial or local specifications.
- Topsoil removed during the excavation should be stockpiled in designated areas and should not be mixed with subsoil or other materials.
- The Jellyfish manhole should not be installed on frozen ground.
- Excavation should extend a minimum of 12 inches (300mm) from the precast concrete surfaces plus an allowance for shoring and bracing where required.
- If the bottom of the excavation provides an unsuitable foundation additional excavation may be required. In areas with a high water table, continuous dewatering may be required to ensure that the excavation is stable and free of water.
- Level the sub-grade to the proper elevation. Verify the elevation against the manhole dimensions, the invert elevations, and the site plans. Adjust the base aggregate, if necessary. Verify the soil bearing capacity is adequate for the required load.

Installation of Jellyfish Manhole

- Set the base section of the Jellyfish manhole on solid sub-grade.
- Verify the level and elevation of the base section before adding any riser sections.
- Add watertight seal (either mastic rope or rubber gasket) to the base section. Set riser section(s) on the base section.
- Install the inlet and outlet pipes to the Jellyfish manhole. Do not install Jellyfish cartridges until the site is stabilized.

Installation of Jellyfish Cartridges

- After the site is stabilized, remove any accumulated sediment and debris from the manhole.
- Descend to the cartridge deck using the ladder attached to the sidewall of the manhole. Confined space entry procedures are required.
- Lower the Jellyfish cartridges labeled “Jellyfish Cartridge” into the cartridge holes contained within the kidney-shaped 6-inch high backwash weir. Insure the cartridge head threads are aligned properly with the cartridge hole receptacle threads. Twist the cartridge head clockwise $\frac{1}{4}$ turn by hand to seat the cartridge snugly in place. Do not over-tighten.
- Lower the Jellyfish cartridge(s) labeled “Jellyfish Draindown Cartridge” into the cartridge hole(s) not contained by the kidney-shaped 6-inch high backwash weir.

Insure the cartridge head threads are aligned properly with the cartridge hole receptacle threads. Twist the cartridge head clockwise $\frac{1}{4}$ turn by hand to seat the cartridge snugly in place. Do not over-tighten.



Jellyfish Cartridge Installation