

# WEST COAST FILTERS INC.

## Design, Manufacture & Distribution of Water Purification Equipment

### Reaction Tank Set Up Instructions

If your system includes a custom built detention it has been designed to meet the requirements of your particular application. The construction of our detention tanks is similar to that of the filter vessels. Set up and installation of the vessel is identical to that of the filter vessels.

The vessels should be placed into the correct location and levelled by shimming, grouting or adjusting the legs as required. Ensure that the orientation of the vessel allows for easy access to the manhole openings.

Connect all interior apparatus such as baffles, distributors or collectors with the appropriate hardware as indicated by the prints.

Install all stainless steel or PVC screens.

Use a Teflon based product on the male threads. Use a proper fitting wrench to complete the installation.

**WARNING: NEVER USE A WRENCH ON THE SLOTTED PART OF THE SCREEN!**

Several types of detention tank internals may be used depending on the exact application. For a system that requires flocculation and coagulation, vertical or horizontal baffle plate, will be utilized with the incoming flow directed over the baffle.

For a system that requires contact time with chemicals for oxidation purposes a PVC slotted lower distributor and upper collector will be utilized to ensure maximum contact time.

A sludge / sediment drain connection will be provided in the lower head of the vessel to allow for blow-down at regular intervals.

If your vessel is equipped with side shell view-ports the interior of the vessel will be visible through these assemblies. There may also be sample screens at strategic locations on the side-shell of this vessel. These items will allow the operator to monitor the activity inside the tank. This will assist in the selection of correct chemical dosages.

Connect all external pipe and valves to the correct configuration as indicated on the drawings. It is advisable to utilize an automatic air release assembly on the top centre fitting of this vessel. It is also recommended that isolation valves be installed at the inlet side of the vessel to allow regular inspection and maintenance.

Slowly fill the vessel with water ensuring that all air is expelled from the system. Operate all sample screens to flush any foreign matter from them. The system is now ready to be put into service.