



Clemons Centrifugal Sand Separator Installation Instructions

All Clemons Separators are designed for easy installation. Large units have self-supporting legs with slots for anchor bolts and inlet piping can be for either clockwise or for counter-clockwise rotation. The units are shipped on skids or completely assembled. Large units are assembled as follows:

- A concrete foundation 12 inches square by a length 8 inches longer than the channel leg base should be placed under each leg with anchor bolts inserted in the concrete and some reinforcing steel. A lifting eye is supplied to assist in placing the separator body.
- Install pressure gauges on the 1/4inch fittings.
- A ½ inch outlet is on the discharge pipe of the separator-this is to supply clean water down to the electric valve diaphragms where the sand is blown off.
- In and out piping to the separator should have a straight run of at least 5 pipe diameters in order to quiet the water down.
- **DO NOT** use thin wall elbows-these set up a vibration in the separator. Check valves should be placed ahead of the separator. A vacuum relief valve should be placed up-stream from the separator. An automatic flush valve should be placed on the sand blow-off connection. These are inexpensive and are available in various in types.

Small vertical separators can be wall mounted, hung on the main piping, or place on legs if ordered that way. Installation for both small and large units can be achieved by the following.

- Connect separator discharge to clean liquid pipeline using short nipples and union-same size as the separator discharge coupler.
- Install nipple and purge valve-same size as purge coupler.
- Using the bell reducer, supplied with the vertical separator, connect the separator inlet to the pipe carrying solid-laden liquid.