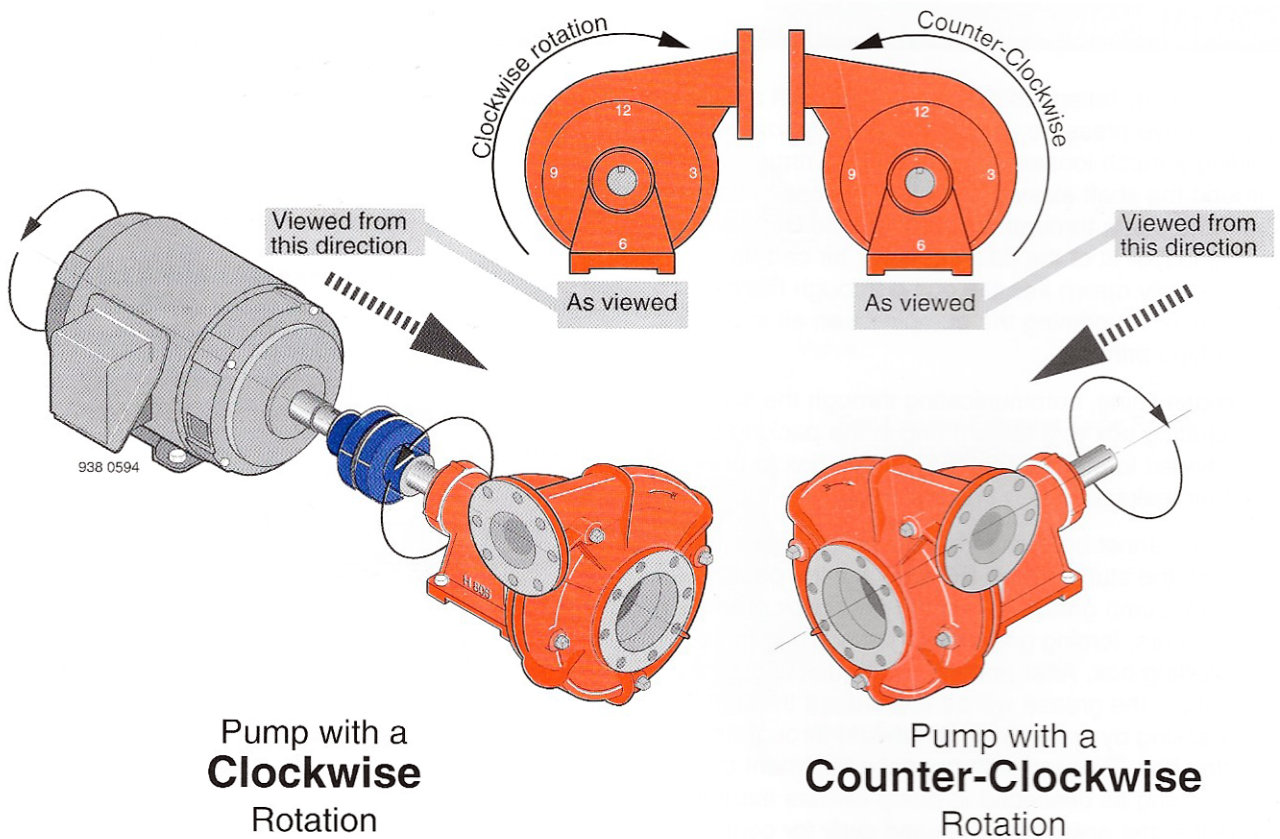


START-UP

Determine Pump Rotation



Pump Rotation is determined as clockwise or counter-clockwise by viewing liquid end of pump from the **back** or **shaft side**, and **NOT** from looking into the impeller eye or front of volute.

Pump Rotation **must** be verified after installation.

- **Electric Motors:**

Single Phase: Refer to wiring information on the motor plate to obtain proper rotation.

Three Phase: If pump runs backward, reverse any two leads coming off incoming power (L1, L2, L3) until proper rotation is obtained. (ie: reverse L1 and L2, L2 and L3, or L1 and L3).

- **Note:** It is common for many motor and engine manufacturers to indicate rotational direction in the opposite manner as the pump standard. That is, they refer to the rotation as viewed from the front of motor or engine. **Pump** rotation is determined by viewing from the **back**.

- Pump running backward – A centrifugal pump will still pump liquids, however, GPM and head will be a fraction of the published performance.