



## How to Determine Water Pump Rotation

**Application** All vane type water pumps.

**Problem** How to determine pump rotation by impeller design.

**Solution** Impellers must turn in a direction so that the fluid is pushed (not scooped) through the pump (see sample drawing below). Exceptions are pumps with straight vane impellers (vanes perpendicular to the shaft) and shrouded impellers. Straight vane impellers function in either direction. Shrouded impellers turn so they scoop the fluid.



Vane Rotation

**Note** The examples show the impeller side of the pump, the rotation on the hub side is opposite.