



NAPA Tech TIPS

SUPPORTING TODAY'S PROFESSIONAL TECHNICIAN

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 (vaned 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.