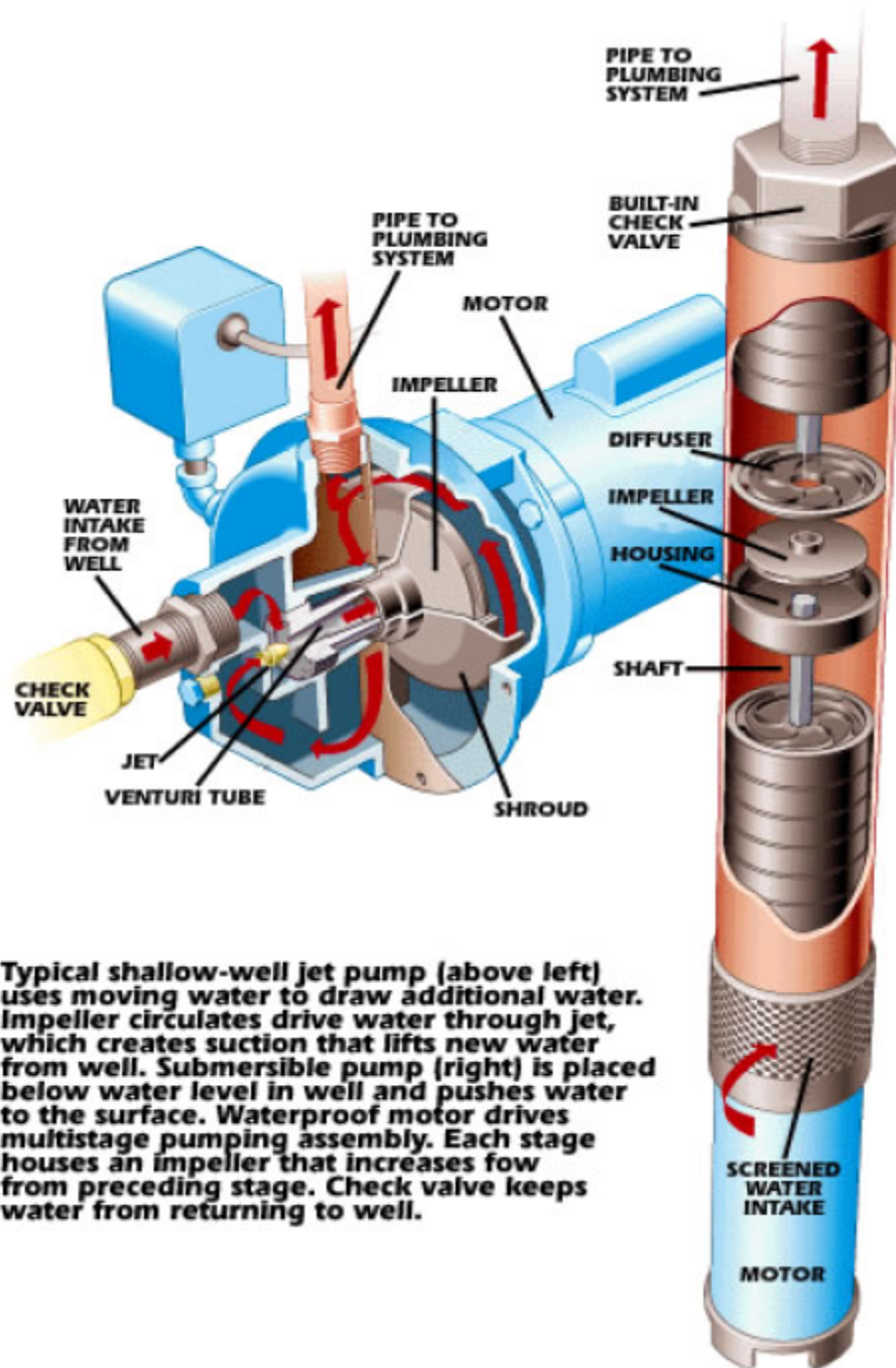
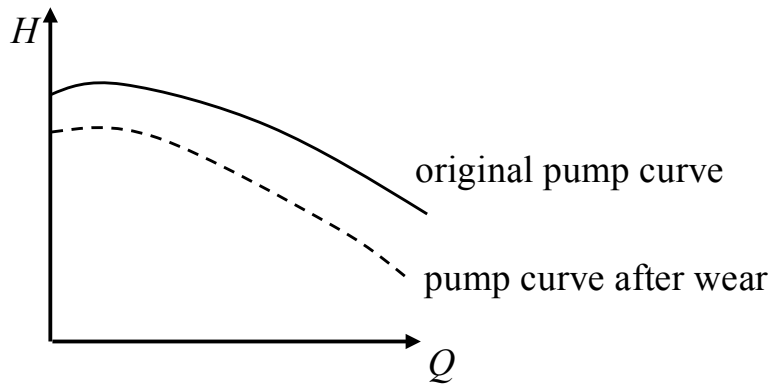
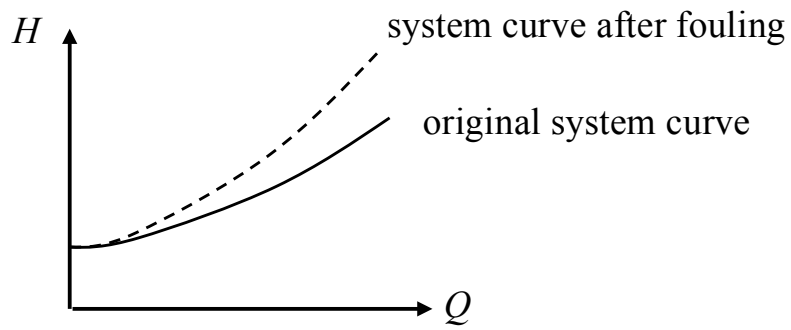
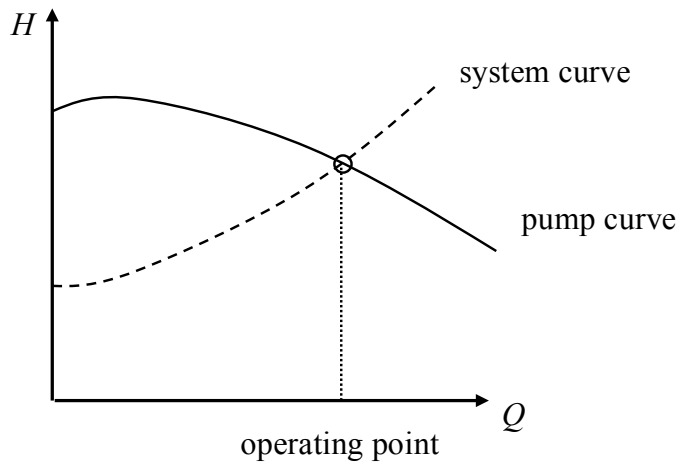


## Pumps – Operating Point

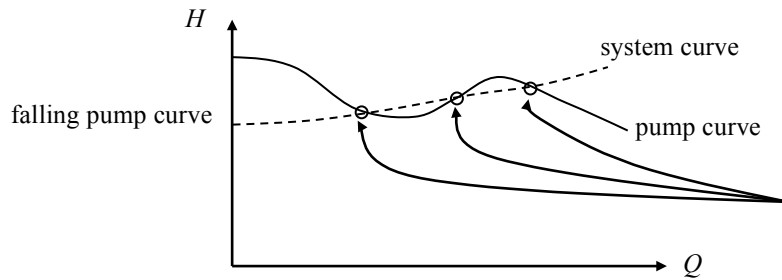
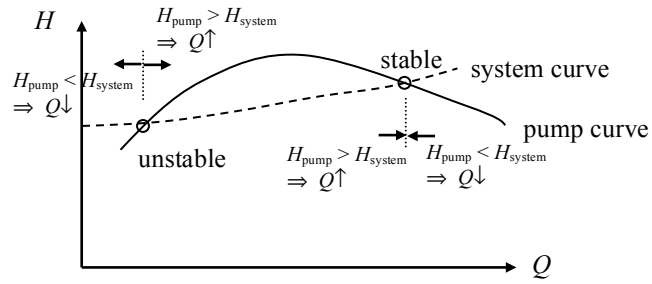


**Typical shallow-well jet pump (above left) uses moving water to draw additional water. Impeller circulates drive water through jet, which creates suction that lifts new water from well. Submersible pump (right) is placed below water level in well and pushes water to the surface. Waterproof motor drives multistage pumping assembly. Each stage houses an impeller that increases flow from preceding stage. Check valve keeps water from returning to well.**

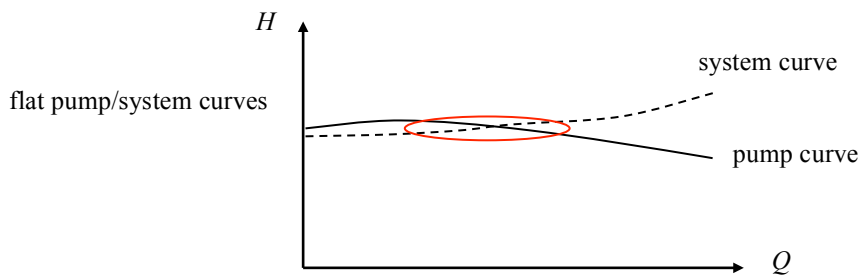
## Pumps – Operating Point



# Pumps – Operating Point



For the system shown at the left there are three operation points! The system may oscillate between these points!



For the system shown at the left, the system may drift over a wide range of  $Q$ !