

## REGULATION AND USE OF PROPELLER PUMPS

### CHANGE OF CAPACITY THROUGH ADJUSTING BLADES PITCH ANGLE

The characteristic curve of a propeller pump can be modified by changing the pitch angle of the blades ( $\beta$ ). The trend of the variation is shown in the figure. At the same head, the curves that correspond to greater capacities are relative to the major angles. Parallel to the displacement of the capacity-head curve there is a displacement of the capacity-efficiency curve; varying the pitch angle of the blades, at the same head, it's possible to have different flow rates working always close to the best efficiency point of the pump (B.E.P.)

