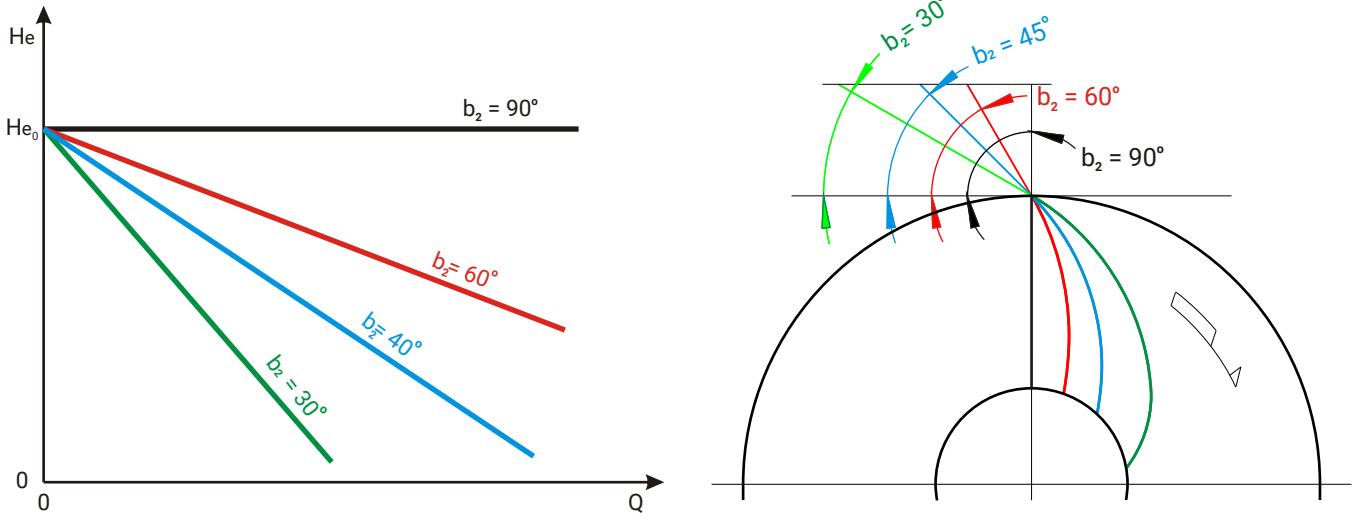


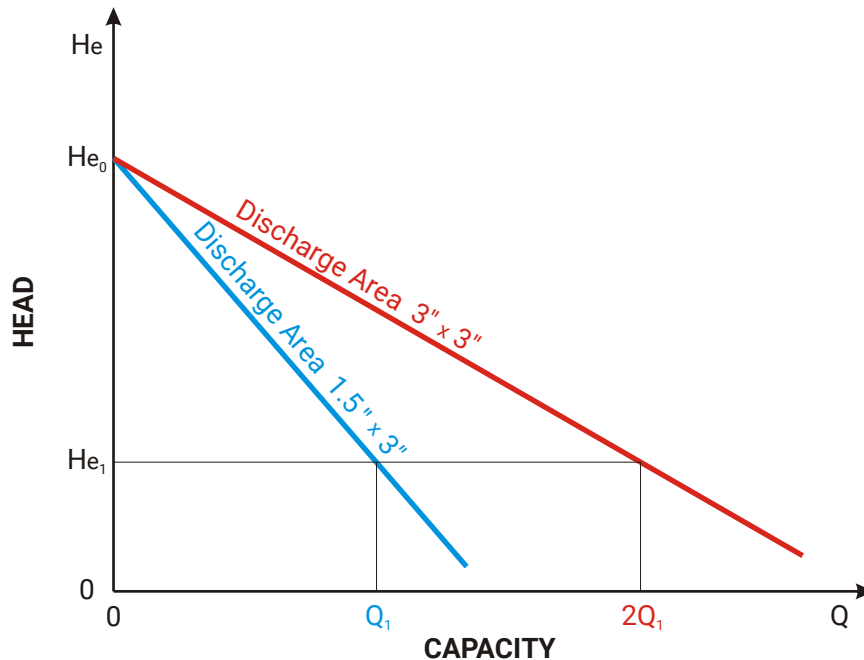
The below diagram is a theoretical diagram of the perfect pump, however it cannot be used to predict the actual head- capacity in a real pump. It is shown to illustrate just one of the factors that determine the capacity of a centrifugal pump.

**Euler's Head - Capacity Characteristics**  
 $b_2$  : Angle of Discharge Vane



The below curve is the second way to determine the approximate capacity of a centrifugal pump. Since  $Q = A \times V$ , you can approximate that: A pump impeller with the same discharge angle, turning at the same RPM, with the same diameter impeller, with twice the thulet size will produce twice the flow.

**Capacity Characteristics - Depending on Thulet Size**



Where:  
Q = Capacity  
A = Area  
V = Velocity