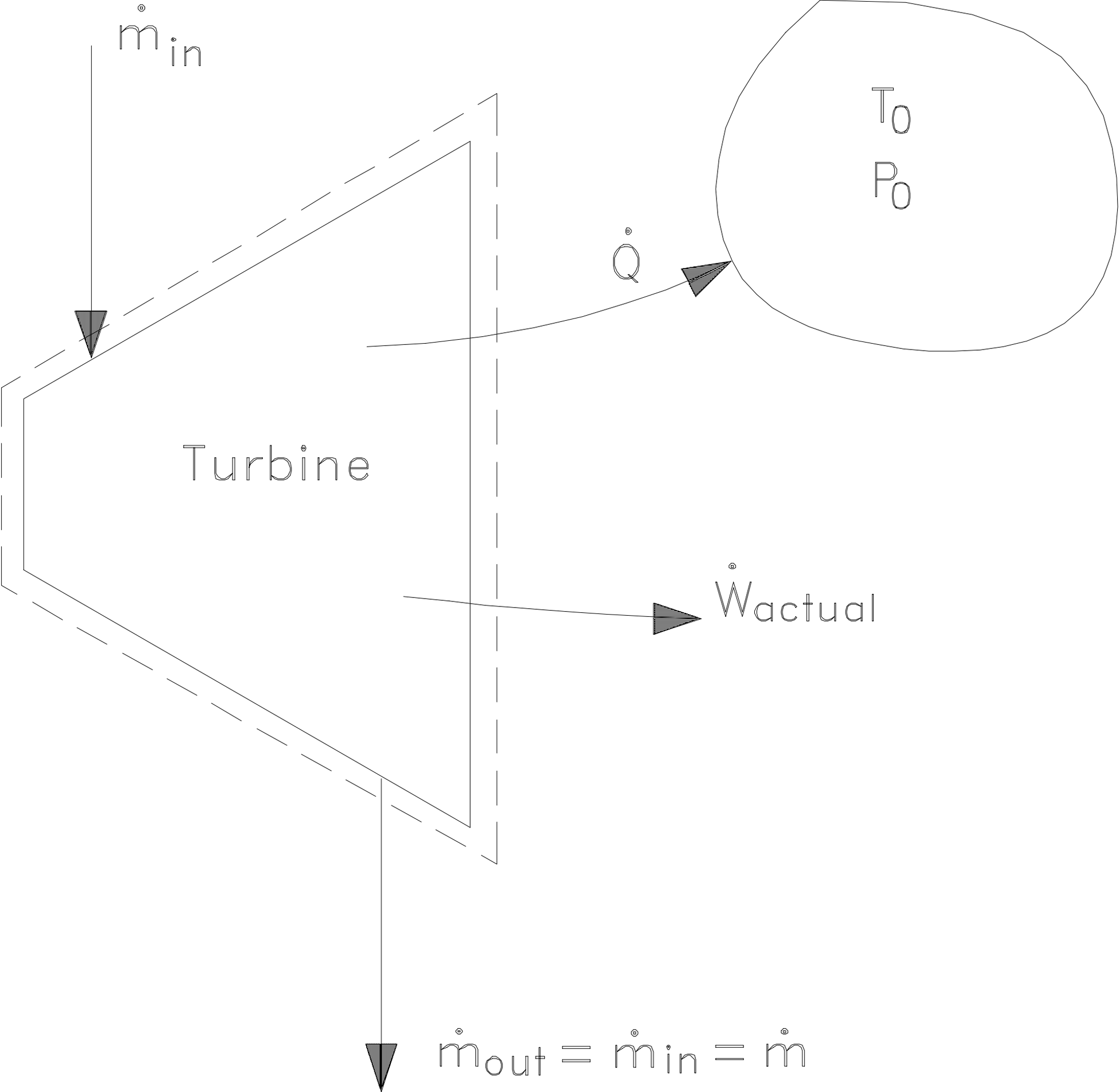
$\dot{m}_{in}$
T_0
P_0
$\dot{Q}$
Turbine
$\dot{W}_{actual}$
$\dot{m}_{out} = \dot{m}_{in} = \dot{m}$