

$P_1$  = Pressure of working substance entering the system

$V_1$  = Specific volume of working substance

$U_1$  = Specific Internal Energy

$C_1$  = Velocity of working substance

$Z_1$  = Height above the datum level

$P_2, V_2, U_2, C_2, Z_2$  = Corresponding values of working substance

$Q$  = Heat supplied to system

$W$  = Work developed by system

Total energy at Entering = P.E + K.E + U.E + F.E + Heat energy

$$= gz_1 + \frac{C_1^2}{2} + (U_1 + P_1 V_1) + Q$$

Total energy at Leaving = P.E + K.E + U.E + F.E + Work done

$$= gz_2 + \frac{C_2^2}{2} + (U_2 + P_2 V_2) + W$$

Total energy entering and leaving,

$$gz_1 + \frac{C_1^2}{2} + (U_1 + P_1 V_1) + Q = gz_2 + \frac{C_2^2}{2} + (U_2 + P_2 V_2) + W$$

We know that,

$$H = U + PV$$

$$gz_1 + \frac{C_1^2}{2} + H_1 + Q = gz_2 + \frac{C_2^2}{2} + H_2 + W$$

Multiply 'm' on both sides,

$$m [gz_1 + \frac{C_1^2}{2} + H_1 + Q] = m [gz_2 + \frac{C_2^2}{2} + H_2 + W]$$

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