Steam

1 #/ HR = 10,000 BTUH

$$GPM = \frac{BTUH}{10,000}$$

$$CV = \frac{GPM}{\sqrt{\Delta P \ x \ P_2}}$$

ΔP = Pressure Drop Across Valve	P_2 = Valve Outlet Pressure + 14.7 PSI

Water

1 GPM = 10,000 BTUH

$$GPM = \frac{BTUH}{10,000}$$

$$CV = \frac{GPM}{\sqrt{\Delta P}}$$

ΔP = Pressure Drop Through Valve

BTUH (Water) = GPM x 500 x ΔTw

ΔTw = Temperature Difference of Water Through Coil

BTUH (Air) = 1.08 x CFM x ΔTa

CFM = Air Flow in Cubic Feet	ΔTa = Temperature Difference in Air Across Coil