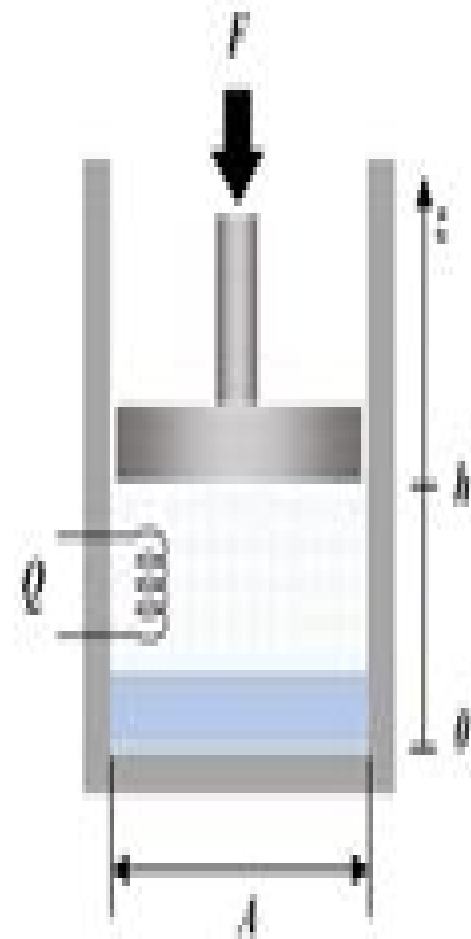


Problem 3 (30 points)

A piston-cylinder assembly containing 65 g of saturated water, is pressurized by a constant force $F = 30 \text{ kN}$ as in the figure.

- If the area of the cylinder is $A = 0.01 \text{ m}^2$ and the initial height of the piston is $h = 0.05 \text{ m}$ determine initial pressure, temperature and quality x of the system. *Hint:* use Table A-5 to obtain properties of saturated water as function of the pressure.
- A coil heater is used to raise the temperature of the system to 650°C . Determine the final position z of the piston and the energy transferred by the coil, supposing that piston and cylinder walls are well insulated.



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