

## THERMAL AND FLUID SYSTEMS PRACTICE EXAM

7. A solar-thermal power system pumps and stores hot ( $1,000^{\circ}\text{F}$ ) liquid sodium in an insulated overhead storage tank, as shown in the figure. The pump delivers sodium at the rate of  $50 \text{ lbm/sec}$ .

Use the following properties of sodium at  $1,000^{\circ}\text{F}$ :

Density	$51.4 \text{ lbm/ft}^3$
Specific heat	$0.301 \text{ Btu/(lbm}\cdot^{\circ}\text{F)}$
Thermal conductivity	$37.6 \text{ Btu/(hr}\cdot\text{ft}\cdot^{\circ}\text{F)}$
Dynamic viscosity	$0.000156 \text{ lbm/(ft}\cdot\text{sec)}$

$$\text{Nu} = \frac{hD}{k} = 5.0 + 0.025(\text{Re Pr})^{0.8}$$

Use the following data for the sodium pipe:

Nominal size	4-in Sch. 40 stainless steel
Inside diameter	4.026 in.
Darcy friction factor	0.01

The convective heat-transfer coefficient [ $\text{Btu}/(\text{hr}\cdot\text{ft}^2\cdot^{\circ}\text{F})$ ] at the inside surface of the pipe is nearly:

- A. 275
- B. 1,460
- C. 3,250
- D. 28,200



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**M Mosston**



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