

The figure shows a section cut through the pipe, cap, and rod.

NUMERICAL DATA

$$E_c = 12000 \text{ ksi} \quad E_p = 14,000 \text{ ksi}$$

$$W = 2 \text{ k} \quad d_c = 6 \text{ in.} \quad t_c = \frac{1}{2} \text{ in.}$$

$$\sigma_a = 5 \text{ ksi} \quad \delta_a = 0.02 \text{ in.}$$

$$\text{Unit weights (see Table 1-1):} \quad \gamma_c = 2.836 \times 10^{-4} \text{ k/in.}^3$$

$$\gamma_s = 3.009 \times 10^{-4} \text{ k/in.}^3$$

$$L_c = 48 \text{ in.} \quad L_p = 42 \text{ in.}$$

$$t_p = 1 \text{ in.}$$

(a) MINIMUM REQUIRED WALL THICKNESS OF CAST IRON PIPE,  $t_{cmin}$

First check allowable stress then allowable shortening:

$$W_{cap} = \gamma_c \left( \frac{\pi d_c^2}{4} t_c \right)$$

$$W_{cap} = 8.018 \times 10^{-3} \text{ k}$$

$$W_{rod} = \gamma_s \left( \frac{\pi d_c^2}{4} L_p \right)$$

$$W_{rod} = 2.482 \times 10^{-3} \text{ k}$$

$$W_t = W + W_{cap} + W_{rod} \quad W_t = 2.01 \text{ k}$$

$$A_{min} = \frac{W_t}{\sigma_a} \quad A_{min} = 0.402 \text{ in.}^2$$

$$A_{pipe} = \frac{\pi}{4} [d_c^2 - (d_c - 2t_c)^2]$$

$$A_{pipe} = \pi t_c (d_c - t_c)$$

$$t_c (d_c - t_c) = \frac{W_t}{\pi \sigma_a}$$

$$\text{Let } \alpha = \frac{W_t}{\pi \sigma_a} \quad \alpha = 0.128$$

$$t_c^2 - d_c t_c + \alpha = 0$$

$$t_c = \frac{d_c - \sqrt{d_c^2 - 4\alpha}}{2} \quad t_c = 0.021 \text{ in.}$$

$\leftarrow$  minimum based on  $\sigma_a$

Now check allowable shortening requirement:

$$\delta_{pipe} = \frac{W_t L_p}{E_p A_{min}} \quad A_{min} = \frac{W_t L_p}{E_p \delta_a}$$

$$A_{min} = 0.447 \text{ in.}^2 < \text{larger than value based on } \sigma_a \text{ above}$$

$$\pi t_c (d_c - t_c) = \frac{W_t L_p}{E_p \delta_a}$$

$$t_c^2 - d_c t_c + \beta = 0 \quad \beta = \frac{W_t L_p}{\pi E_p \delta_a}$$

$$\beta = 0.142$$

$$t_c = \frac{d_c - \sqrt{d_c^2 - 4\beta}}{2}$$

$$t_c = 0.021 \text{ in.} \quad \leftarrow \text{minimum based on } \delta_a \text{ and } \sigma_a \text{ controls}$$

(b) ELONGATION OF ROD DUE TO SELF WEIGHT AND ALSO WEIGHT  $W$

$$\delta_p = \frac{\left( W + \frac{W_{rod}}{2} \right) L_p}{E_s \left( \frac{\pi}{4} d_c^2 \right)} \quad \delta_p = 0.031 \text{ in.} \quad \leftarrow$$

(c) MINIMUM CLEARANCE  $h$

$$h_{min} = \delta_a + \delta_p \quad h_{min} = 0.051 \text{ in.} \quad \leftarrow$$

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**Patrick Vollmar**



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