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Optimisation of L/D Ratio.

- material Volume
- Cost of material

(elliptical head) @ 2t



Let the diameter - D
length - L.

$$\text{Volume of material} = (\pi D L)t + \left(\frac{\pi D^2}{4}\right)t + \left(\frac{\pi D^2}{4}\right) \times 2t$$

$$V = t \left[\pi D L + \frac{\pi D^2 t}{2} \right] \quad \text{--- (i)}$$

$$\text{Volume of } \cancel{\text{sheet}} \text{ Container} = \left[\frac{\pi D^2}{4} \right] \cdot L$$

$$L = \frac{4V}{\pi D^2}$$

$$V = t \left[\pi \cancel{D} \times \frac{4V}{\pi D^2} + \frac{\pi D^2 t}{2} \right]$$

$$V = t \left[\frac{4V}{D} + \frac{\pi D^2 t}{2} \right]$$

$$\left[\frac{PD}{2f_j} + C \right]$$

$$V = \left[\frac{PD}{2f_j} + C \right] \left[\frac{4V}{D} + \frac{\pi D^2 t}{2} \right]$$

$$\frac{dV}{dD} = 0 + \frac{2PV}{f_j} - \frac{P\pi D^3}{4f_j} + \frac{4VC}{D} + \frac{\pi D^2 C}{2}$$

$$\frac{dV}{dD} = 0 + \frac{2P\pi D^2}{4f_j} - \frac{4VC}{D^2} + \pi D C = 0$$

Optimization Engineering Notes

Lingsheng Yao



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