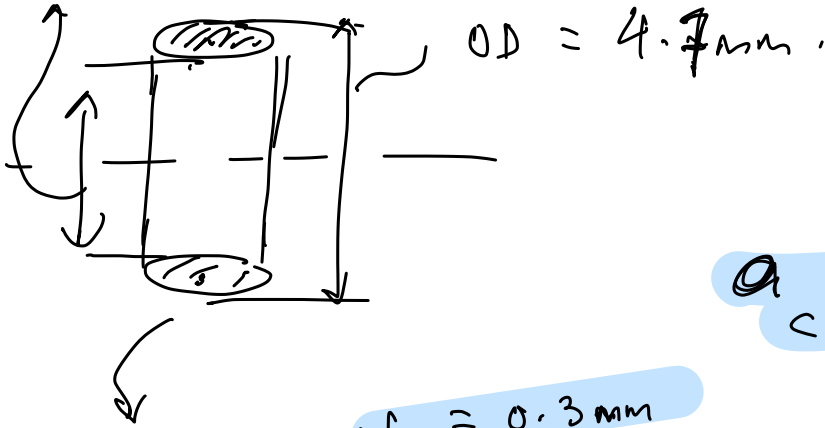
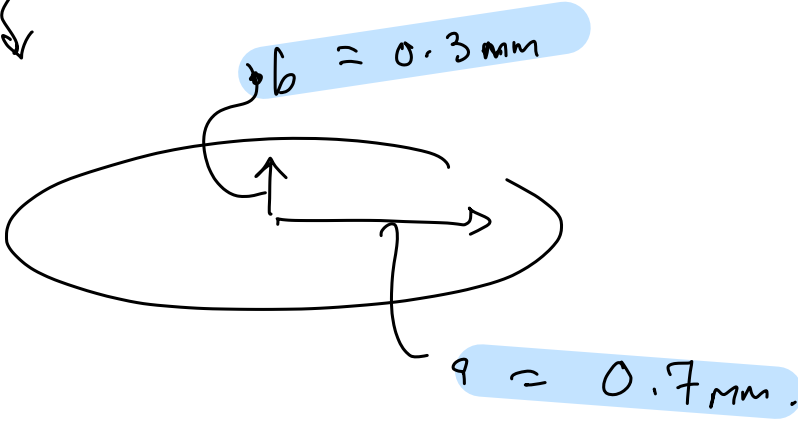


$$\pm D = 3.8 \text{ mm}$$



$$a_{\text{core}} = 2.05 \text{ mm}$$



$$v = 1e^{-6} \text{ (water)}$$

$$f = 3 \text{ Hz} \Rightarrow$$

$$\omega = 2\pi(3) = 6\pi$$

$$A = \frac{72 + 117}{2} = 94.5 \text{ } \mu\text{m}$$

~~$$\epsilon = \frac{A}{a} = 0.135$$~~

$$\epsilon = \frac{A/2}{a} = 0.0675$$

this is peak to peak, so

