

**8-79.** The joint is used to transmit a torque of  $T = 2.4 \text{ kN}\cdot\text{m}$ . Determine the required nominal diameter of the shaft pin A if it is made from a material having a shear failure stress of  $\tau_{\text{fail}} = 150 \text{ MPa}$ . Apply a factor of safety of 2 against failure.



**Relevant Knowledge:** The shear force developed on the shear plane of pin A can be determined by writing the moment equation of equilibrium along the  $x$  axis with reference to the free-body diagram of the shaft, Fig. a.

$$\sum M_x = 0; \quad (150)(L) - 500T = 0$$

$$L = 300 \text{ mm}$$

**Allowable Shear Stress:**

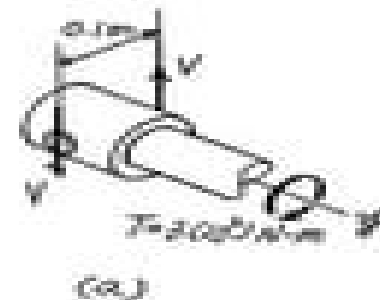
$$\tau_{\text{allow}} = \frac{\tau_{\text{fail}}}{FS} = \frac{150}{2} = 75 \text{ MPa}$$

Using this result,

$$\tau_{\text{allow}} = \frac{T}{J} \quad 75 \text{ MPa} = \frac{2.4 \text{ kN}\cdot\text{m}}{\frac{\pi}{32} d^3}$$

$$d_{\text{req}} = 0.02794 \text{ m} = 27.9 \text{ mm}$$

Ans.



**8-80.** Determine the maximum allowable torque  $T$  that can be transmitted by the joint. The shear pin A has a diameter of 25 mm, and it is made from a material having a failure shear stress of  $\tau_{\text{fail}} = 150 \text{ MPa}$ . Apply a factor of safety of 2 against failure.



$$\sum M_x = 0; \quad (150)(L) - T = 0$$

$$L = 300$$

**Allowable Shear Stress:**

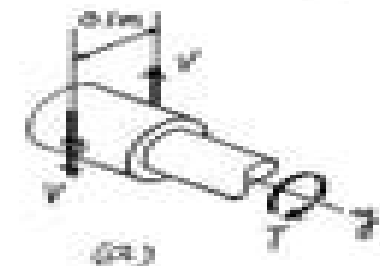
$$\tau_{\text{allow}} = \frac{\tau_{\text{fail}}}{FS} = \frac{150}{2} = 75 \text{ MPa}$$

The area of the shear plane for pin A is  $A_s = \frac{\pi}{4} (0.025)^2 = 0.000491 \text{ m}^2$ . Using this result,

$$\tau_{\text{allow}} = \frac{T}{A_s} \quad 75 \text{ MPa} = \frac{T}{0.000491 \text{ m}^2}$$

$$T = 0.03687 \text{ kN}\cdot\text{m} = 36.9 \text{ N}\cdot\text{m}$$

Ans.



# Slideshare Mechanics Of Materials 8th Solution Manual

**B. B. Muvdi, J. W. McNabb**



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