

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.

$$\sum M_x = 0; \quad (150)(L) - 500(5) = 0$$

$$L = 16.67 \text{ mm}$$

Allowable Shear Stress:

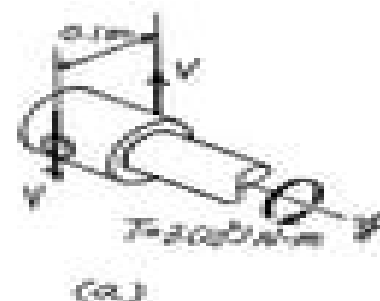
$$\tau_{\text{allow}} = \frac{\tau_{\text{fail}}}{FS} = \frac{150}{2} = 75 \text{ MPa}$$

Using this result,

$$\tau_{\text{allow}} = \frac{T}{A_s} \quad 75 \text{ MPa} = \frac{2.4 \text{ kN}\cdot\text{m}}{\frac{\pi}{4} d_s^2 L}$$

$$d_s = 0.02794 \text{ m} = 27.9 \text{ mm}$$

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.



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

$$T = 150L$$

Allowable Shear Stress:

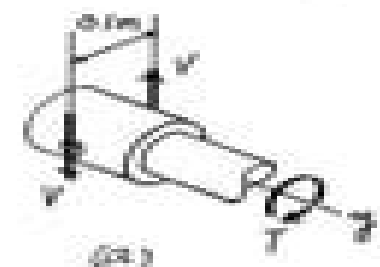
$$\tau_{\text{allow}} = \frac{\tau_{\text{fail}}}{FS} = \frac{150}{2} = 75 \text{ MPa}$$

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

$$\tau_{\text{allow}} = \frac{T}{A_s} \quad 75 \text{ MPa} = \frac{150L}{0.000491 L}$$

$$T = 0.03667 \text{ kN}\cdot\text{m} = 36.7 \text{ N}\cdot\text{m}$$

Ans.



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 - The Rise of Digital Reading Mechanics Of Materials Hibbeler 8th Edition Solution Manual Slideshare
 - Advantages of eBooks Over Traditional Books
2. Identifying Mechanics Of Materials Hibbeler 8th Edition Solution Manual Slideshare
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mechanics Of Materials Hibbeler 8th Edition Solution Manual Slideshare
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mechanics Of Materials Hibbeler 8th Edition Solution Manual Slideshare
 - Personalized Recommendations
 - Mechanics Of Materials Hibbeler 8th Edition Solution Manual Slideshare User Reviews and Ratings
 - Mechanics Of Materials Hibbeler 8th Edition Solution Manual Slideshare and Bestseller Lists
5. Accessing Mechanics Of Materials Hibbeler 8th Edition Solution Manual Slideshare Free and Paid eBooks
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 - Mechanics Of Materials Hibbeler 8th Edition Solution Manual Slideshare eBook Subscription Services

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 - Mechanics Of Materials Hibbeler 8th Edition Solution Manual Slideshare Compatibility with Devices
 - Mechanics Of Materials Hibbeler 8th Edition Solution Manual Slideshare Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mechanics Of Materials Hibbeler 8th Edition Solution Manual Slideshare
 - Highlighting and Note-Taking Mechanics Of Materials Hibbeler 8th Edition Solution Manual Slideshare
 - Interactive Elements Mechanics Of Materials Hibbeler 8th Edition Solution Manual Slideshare
- 8. Staying Engaged with Mechanics Of Materials Hibbeler 8th Edition Solution Manual Slideshare
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mechanics Of Materials Hibbeler 8th Edition Solution Manual Slideshare
- 9. Balancing eBooks and Physical Books Mechanics Of Materials Hibbeler 8th Edition Solution Manual Slideshare
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mechanics Of Materials Hibbeler 8th Edition Solution Manual Slideshare
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mechanics Of Materials Hibbeler 8th Edition Solution Manual Slideshare
 - Setting Reading Goals Mechanics Of Materials Hibbeler 8th Edition Solution Manual Slideshare
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mechanics Of Materials Hibbeler 8th Edition Solution Manual Slideshare
 - Fact-Checking eBook Content of Mechanics Of Materials Hibbeler 8th Edition Solution Manual Slideshare
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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web physical specifications o the caterpillar 3508 measures 194 inches 16 feet 2 inches long by 67 inches 5 feet 7 inches wide by 78 inches 6 feet 6 inches high it weighs 24 290 lbs 12 tons 290 lbs and its cast metal casing is painted in the trademark caterpillar orange yellow color