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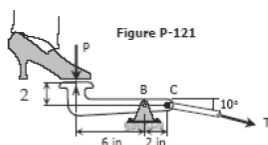


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**Problem 121**

Referring to Fig. P-121, compute the maximum force  $P$  that can be applied by a machine operator, if the shearing stress in the pin at  $B$  and the axial stress in the control rod at  $C$  are limited to 4000 psi and 5000 psi, respectively. The diameters are 0.25 inch for the pin, and 0.5 inch for the control rod. Assume single shear for the pin at  $B$ .



**Solution 121**

$$[\Sigma M_B = 0] \quad 6P = 2T \sin 10^\circ \rightarrow (1)$$

$$[\Sigma F_H = 0] \quad B_H = T \cos 10^\circ \rightarrow \text{from (1), } T = 3P/\sin 10^\circ$$

$$B_H = (3P/\sin 10^\circ) \cos 10^\circ$$

$$B_H = 3 \cot 10^\circ P$$

$$[\Sigma F_V = 0] \quad B_V = T \sin 10^\circ + P \rightarrow \text{from (1), } T \sin 10^\circ = 3P$$

$$P = 3P + P$$

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