

Solutions of ch. 11 (Screw joints)

1-

From table 11.1 :

stress area for M20 = 245 mm^2 , and for M36 = 817 mm^2

$$P = A \times \sigma_t = 245 \times 200 = 49000 \text{ kN for M20}$$

$$= 817 \times 200 = 163400 = 163.4 \text{ kN for M36}$$

2-

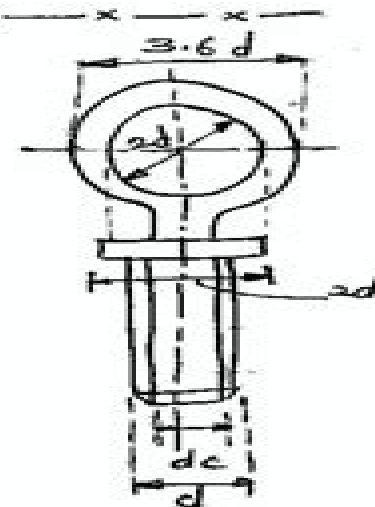
$$P = \frac{\pi}{4} (d_c)^2 \cdot \sigma_t$$

$$20 \times 10^3 = \frac{\pi}{4} (d_c)^2 \times 100$$

$$d_c = 15.95 \text{ mm}$$

The nearest value of d_c from table 11.1

$$d_c = 16.933 \text{ mm, M20 ans.}$$



3-

$$P = \frac{\pi}{4} (D)^2 \cdot p = \frac{\pi}{4} (300)^2 \times 0.7 = 49480.1 \text{ N}$$

$$P = \frac{\pi}{4} d_c^2 \cdot \sigma_t \cdot n$$

$$49480 = \frac{\pi}{4} d_c^2 \times 20 \times 12$$

$$d_c = 13.693$$

The nearest standard value of d_c from table 11.1

$$d_c = 14.933, M = 18$$

Solution Manual To Machine Design Khurmi

Juvinall



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A Textbook of Machine Design RS Khurmi | JK Gupta, 2005 The present multicolor edition has been thoroughly revised and brought up to date Multicolor pictures have been added to enhance the content value and to give the students an idea of what he will be dealing in reality and to bridge the gap between theory and practice this book has already been included in the suggested reading for the A M I E India examinations **Machine Design** Robert H. Creamer, 1984-01-01 **Publisher's**

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