

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-

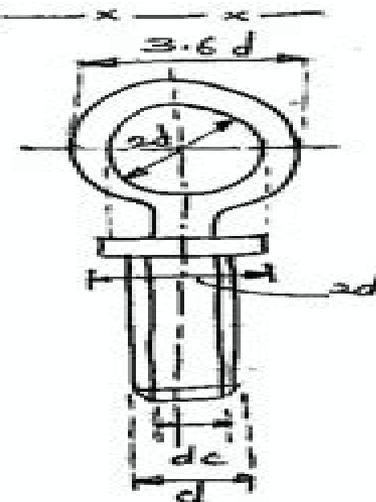
$$P = \frac{\pi}{4} (d_c)^2 \cdot \sigma_T$$

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

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

The nearest value of d_c from table 11-1

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



3-

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

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

$$49480 = \frac{\pi}{4} d_c^2 \times 28 \times 12$$

$$d_c = 13.693$$

The nearest standard value of d_c from table 11-1

$$d_c = 14.933, M = 18$$

Machine Design By Khurmi Solution Manual

CH Cherryholmes



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