

2.1

Rohrmaterial

Rundstahl EN 10060-52 + 4

ist  $\phi 52 \pm 1$

$\sqrt{R74B}$



Lager (Rillenkugellager)  $d \approx 45 \text{ mm}$

$$P = P_0 = F_A = 5 \text{ kN}$$

$$f_s = 1.5$$

$$n = 60 \text{ min}^{-1}$$

$$L_h > 500 \text{ h}$$

$$C = P \cdot \frac{f_L}{f_n}$$

$$C_0 = P_0 \cdot f_s$$

$$\approx 5 \cdot 1.5 = 7.5 \text{ kN}$$

aus  
16-06

$$f_L = 1$$

$$f_n = 0.822$$

$$C \geq 5 \cdot \frac{1}{0.822}$$

$$\geq 6.08 \text{ kN}$$

DR

6009 - 2.RZ

$$C = 20 \text{ kN}$$

$$C_0 = 14.3 \text{ kN}$$

$$D = \frac{75}{10} \text{ mm} \quad B = \frac{16}{10} \text{ mm} \quad r_{15} = 2.5 \text{ mm}$$