

Critical Axial Force

- Ball screw length between bearing necks is limited by critical axial force:

$$P = \frac{102Kd^4}{\mu^2 l^2}$$

P critical axial force, kN;

d ball thread minor diameter, mm;

l unbearing screw length, mm;

μ ratio of sealing method (see figures at page bottom);

K reserve ratio (K=0,5...0,8).

d
l
 μ

($\mu = 0,5 \dots 0,8$);

