LOAD CALCULATIONS

L = applied load / number of roller pairs

L_R = roller radial load

Lo = roller load from applied moment

A = load offset dimension

B = track width dimension

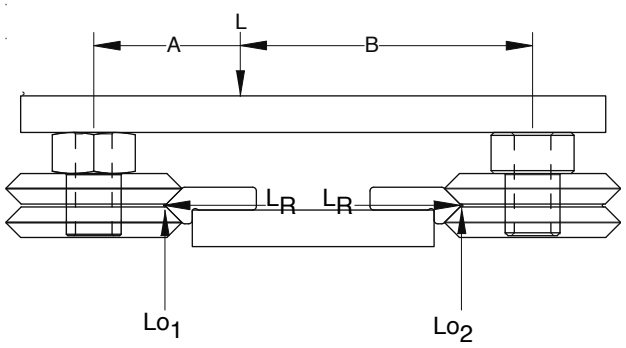
F_A = .5 for light duty, well lubricated use*

F_A = 1 for normal lubricated use*

F_A = 2 for dry, or harsh environments*

*Also consider lubrication comments.

LOAD CONDITION A

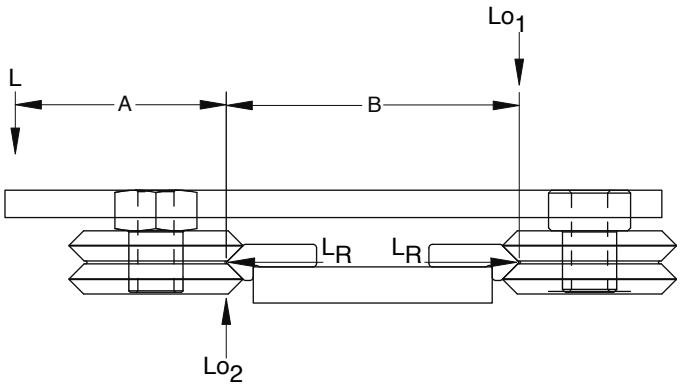


$$Lo_1 = \frac{L \times B \times F_A}{A + B}$$

$$Lo_2 = (L \times F_A) - Lo_1$$

Compare the greater of these loads to the rated moment and radial load capacities.

LOAD CONDITION B



$$Lo_1 = \frac{L \times A \times F_A}{B}$$

$$Lo_2 = (L \times F_A) = Lo_1$$

Compare the greater of these loads to the rated moment and radial load capacities.

LOAD CONDITION C

$$Lo_2 = \frac{L \times A \times F_A}{B}$$

$$L_R = (L \times F_A) + Lo_1$$

$$Lo_1 = Lo_2$$

Compare the greater of these loads to the rated axial and radial load capacities of the roller.