

Concentric Reducers

Expansion joints installed in piping systems must be anchored on both sides of the joints to avoid the use of control rods. If control rods are installed as a safety measure, the locking nuts must be backed off with a clearance equal to the specified axial movement. The expansion joint will exert thrust on the anchors. To calculate thrust, use the following equation:

Thrust = (Thrust Area Large End ID) x (Rated Working Pressure)

EXAMPLE— For a 12" x 10" FCR/FER500, the Thrust Area 133 in² multiplied by the Rated Working Pressure 140 psi equals the Thrust 18,620 lbs.

133 x 140 = 18,620 lbs.

