

# FIXED ANGLE TIGHTENERS



## Side to side rotation

Rotation angle is  $\pm 30^\circ$ . Side to side rotation simplifies the designing of application. \*) For details, please refer to catalog pages of each tighteners.

## Space saving

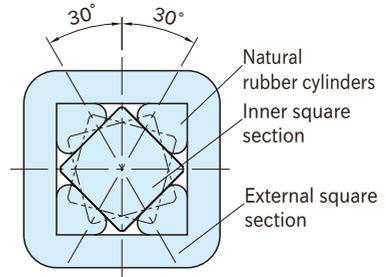
Compact and light design offers the small mounting space.

## High resistance against dirt

Resists to dirt and sustainable with water & sunlight.

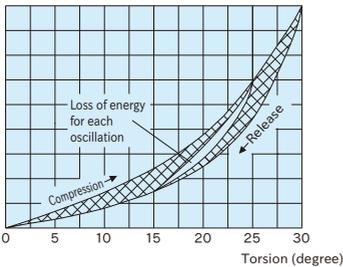
## Simple Structure

Basic 3 components of Fixed Angle Tighteners are Natural rubber cylinders, Inner square section and External square section. The Natural rubber cylinders are inserted in the space between the Inner square section and the External square section.



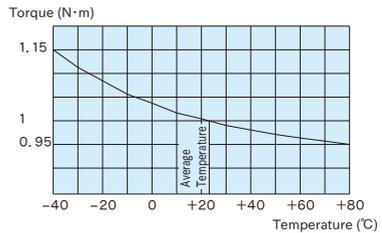
## Shock Absorbing Factor

The area between the loading curve and the release curve represents the loss of energy by oscillation. The shock absorption value is not constant as it depends on factors such as temperature and acceleration.



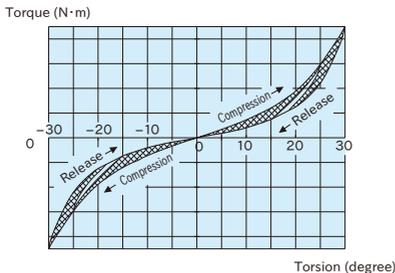
## Operating Temperature

The rubber used in the product has been designed to operate in the  $-40^\circ\text{C}$   $+80^\circ\text{C}$  temperature range, and if the temperature exceeds  $80^\circ\text{C}$ , its mechanical resistance decreases. The percentage of shock absorption increases at a low temperature and drops at a high temperature.



## Elasticity

The special construction of the Fixed Angle Tighteners offers progressive elasticity both in the loading and releasing phase.



## Permanent set of the Rubber

The vertical axis of the graph shows the permanent set of the rubber. The operating range varies by  $\pm 30^\circ$  rotation and the permanent set is as shown in the graph below.

The deformation of the rubber ranges  $3^\circ$  to  $5^\circ$  from the rest position.

