

## 1.5. Safety Design

### Permissible Tilt Angle

The permissible tilt angles of Link Ball models are indicated in the corresponding dimensional tables in the "THK General Catalog - Product Specifications," provided separately.

Note: If the permissible tilt angle is exceeded, it may cause serious damage to the holder or the boot. Be sure to use the Link Ball within its permissible tilt angle.

### Service Temperature

If the Link Ball is to be used at temperature of 80°C or higher, or receives an impact at low temperature, it is necessary to consider the safety factor of the holder. Contact THK in advance. For details, see the data on durability tests conducted in high and low temperatures (page T-16 of the "THK General Catalog - Technical Descriptions of the Products," provided separately).

In an actual application, the Link Ball has been used as a ball joint for transmission control of a truck at service temperature between -40°C and +140°C.

### How Load Directions Are Called

Regardless of the shape, the direction of the load applied to the Link Ball is called "axial direction" if it is parallel to the axis of the ball shank, and "perpendicular-to-axis direction" if it is perpendicular to the axis.

### Compressive Load and Pulling Load

Of the loads applied in the axial direction, the load in the direction of the ball shank being pressed toward the holder is called "compressive load" and the load in the direction of the ball shank being pulled from the holder is called "pulling load."

