

### 3 Mounting

Geometric and positional accuracy of the mounting surface

The inaccuracy of the mounting surfaces will affect the running accuracy and reduce the operating lifetime of the ST miniature Stroke Slide. If the inaccuracies of the mounting surfaces exceed the values calculated by formulas (15), (16), and (17) on page 12, the lifetime will become shortened, as calculated by formulas (18) and (19).

$$e_1(\text{mm}) = b(\text{mm}) \cdot f_1 \cdot 10^{-4} \quad \text{--- (15)}$$

$$e_2(\text{mm}) = \left( \frac{d}{L_c} \frac{\text{mm}}{\text{mm}} \right) \cdot f_2 \cdot 10^{-5} \quad \text{--- (21)}$$

$$e_3(\text{mm}) = f_3 \cdot 10^{-3} \quad \text{--- (17)}$$

$L_c$  = length of the cage

| Size | V0             |                |                | V1             |                |                | Ordering Designation |   |   |    |   |           |    |    |
|------|----------------|----------------|----------------|----------------|----------------|----------------|----------------------|---|---|----|---|-----------|----|----|
|      | f <sub>1</sub> | f <sub>2</sub> | f <sub>3</sub> | f <sub>1</sub> | f <sub>2</sub> | f <sub>3</sub> | ST                   | 7 | M | V0 | P | 25.5 / 34 | 55 | To |
| 7    | 5              | 200            | 4              | 3              | 130            | 3              |                      |   |   |    |   |           |    |    |
| 9    | 5              | 300            | 6              | 4              | 200            | 4              |                      |   |   |    |   |           |    |    |
| 12   | 6              | 380            | 8              | 4              | 250            | 6              |                      |   |   |    |   |           |    |    |
| 15   | 7              | 530            | 12             | 5              | 350            | 8              |                      |   |   |    |   |           |    |    |

  

Height and fillet of the fitting edge

The tables for the fillet of the fitting edge corner and the height of the fitting edge shown on page 12 are also suitable for the ST series.

### 4 Order Designation

An example of the ST Miniature Stroke Slide series part numbering system is shown in the above Order Designation