



Length calculation – screw and protective tube

A quicker method

The tables on the following pages allow you to calculate the required screw length and protective tube extension length yourself. This lets you quickly calculate the fitting dimensions of your screw jack.

Principle

Depending on the version and accessories used the screw (and the protective tube on the S version) are extended. These dimensions are minimum requirements. For special fitting situations, please provide a drawing or contact our project technicians.

Stroke + basic length (+ various extensions for variants/accessories)

Example S:

Z-25-SN, stroke: 250 mm
 Bellows Z-25-FB-300 (ZD=70mm)
 Fixing flange BF (means the bellows do not require an fixing ring)
 Rotation protection VS
 Limit switch ES

Screw length Tr:

$$\begin{array}{rcccccc}
 250 & + & 180 & + & 44 & + & 45 & = & 519 \text{ mm} \\
 \text{Stroke} & & \text{Basic length} & & \text{Bellows} & & \text{Limit switch +} & & \text{Screw length} \\
 & & & & (70-26=44) & & \text{rotation protection} & & \\
 & & & & \text{Section 4} & & & &
 \end{array}$$

Protective tube length SRO:

$$\begin{array}{rcccccc}
 250 & + & 53 & + & 72 & = & 375 \\
 \text{Stroke} & & \text{Basic length} & & \text{Limit switch +} & & \text{Protective tube length} \\
 & & & & \text{Rotation protection} & &
 \end{array}$$

Example R:

Z-25-RN, stroke 250 mm
 Screw with end support (opposed bearing plate GLP)
 Bellows Z-25-FB-300 (ZD=70mm) above and underneath
 Duplex nut DM

Screw length Tr:

$$\begin{array}{rcccccc}
 250 & + & 139 & + & 60 & + & 55 & + & 50 & = & 554 \text{ mm} \\
 \text{Stroke} & & \text{Basic length} & & \text{Bellows gearbox side} & & \text{2nd bellows} & & \text{Duplex nut} & & \text{Screw length} \\
 & & & & (70-10=60) & & (70-15=55) & & & &
 \end{array}$$

See Section 4 for the length calculation for connecting shafts.