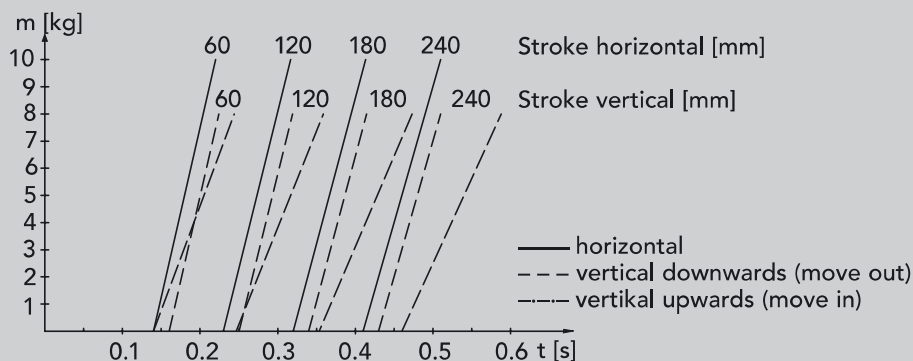


**COMPACT UNIVERSAL SLIDES KUS-25-...-SD<sup>1)</sup>**

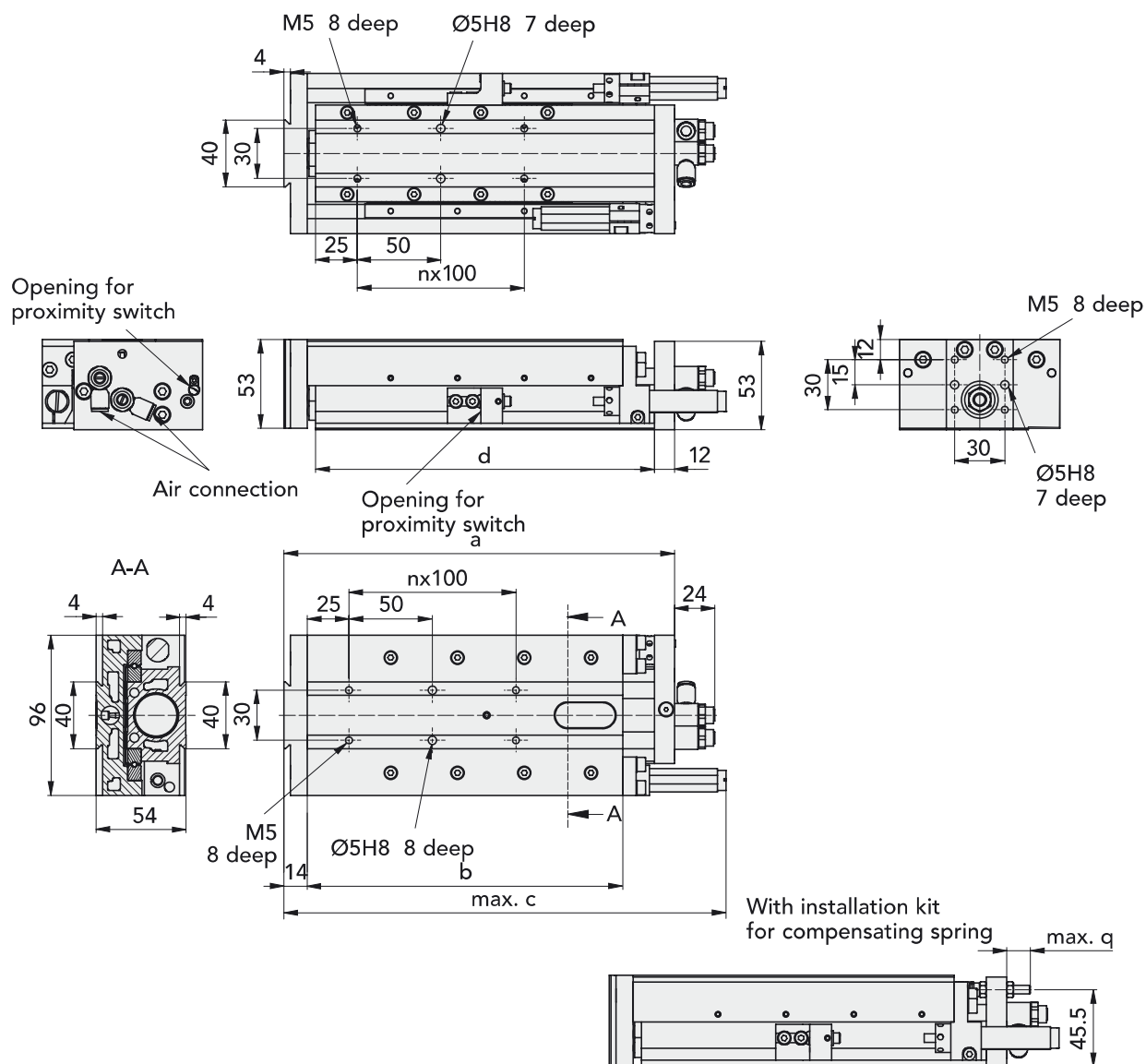
|                                       |                  |      | KUS-25-60-SD                                                       | KUS-25-120-SD | KUS-25-180-SD | KUS-25-240-SD |
|---------------------------------------|------------------|------|--------------------------------------------------------------------|---------------|---------------|---------------|
| Stroke (min./max.)                    | [mm]             |      | 10/60                                                              | 40/120        | 100/180       | 160/240       |
| Adjustment range for stops (per side) | [mm]             |      | 40                                                                 | 40            | 40            | 40            |
| Piston diameter                       | [mm]             |      | 25                                                                 | 25            | 25            | 25            |
| Piston-rod diameter                   | [mm]             |      | 10                                                                 | 10            | 10            | 10            |
| perm. additional mass horiz.          | $m_{h \max}$     | [kg] | 10                                                                 | 10            | 10            | 10            |
| perm. additional mass vert.           | $m_{v \max}$ 2)  | [kg] | 8                                                                  | 8             | 8             | 8             |
| max. static moment                    | $M_{0x \max}$ 3) | [Nm] | 50                                                                 | 62            | 74            | 86            |
| max. static moment                    | $M_{0y \max}$ 3) | [Nm] | 44                                                                 | 66            | 88            | 110           |
| max. static moment                    | $M_{0z \max}$ 3) | [Nm] | 44                                                                 | 66            | 88            | 110           |
| max. static force (at 5 bar)          | $F_{x \max}$ 3)  | [N]  | 150                                                                | 150           | 150           | 150           |
| max. static force                     | $F_{y \max}$ 3)  | [N]  | 300                                                                | 360           | 420           | 480           |
| max. static force                     | $F_{z \max}$ 3)  | [N]  | 300                                                                | 360           | 420           | 480           |
| Weight                                | [kg]             |      | 2.4                                                                | 3.1           | 3.8           | 4.5           |
| Operating pressure                    | [bar]            |      | 3–6                                                                |               |               |               |
| Operating medium                      |                  |      | oiled or unoled air, filtered to 5 $\mu\text{m}$ , dew point < 6°C |               |               |               |
| End stop absorption                   |                  |      | hydraulic shock-absorbers                                          |               |               |               |
| Repeatability                         | 4) [mm]          |      | < 0.01                                                             |               |               |               |
| Check of end position                 | 5)               |      | inductive proximity switches                                       |               |               |               |
| Pneumatic connection                  |                  |      | hose-Ø 6 mm                                                        |               |               |               |
| Speed regulation                      |                  |      | adjustable exhaust valves                                          |               |               |               |
| Noise level                           | 6) [dBA]         |      | < 64                                                               |               |               |               |
| Ambient: Temperature                  | [°C]             |      | 10–50                                                              |               |               |               |
| Rel. humidity                         |                  |      | < 95% (without condensation)                                       |               |               |               |
| Air purity                            |                  |      | normal workshop atmosphere                                         |               |               |               |
| Guaranty period                       |                  |      | 2 years from the date of delivery                                  |               |               |               |
| Mounting position                     | 2)               |      | any                                                                |               |               |               |
| Material                              |                  |      | aluminum, steel                                                    |               |               |               |

- 1) Designation: KUS-piston diameter-stroke-shock absorber
- 2) For vertical applications, use compensating spring  
(see special accessories page 186: Installation kits for compensating spring)
- 3) See load calculations page 174
- 4) Scatter of the end positions for 100 successive strokes, conditions as for 6)
- 5) See assembly instructions page 176 and accessories page 302
- 6) Measured at 5 bar, maximum stroke horizontal, with  $m = m_{h \max}$ , throttled (approach end positions without impact)

**TRAVEL TIME DIAGRAM**


$p = 5 \text{ bar}$

Vertical operation with compensating spring (with  $m = 0 \text{ kg}$  untensioned, with  $m = m_{v \max}$  fully tensioned)



|               | a   | b   | c   | d   | n | q  |
|---------------|-----|-----|-----|-----|---|----|
| KUS-25-60-SD  | 234 | 189 | 265 | 203 | 1 | 14 |
| KUS-25-120-SD | 318 | 273 | 349 | 287 | 2 | 24 |
| KUS-25-180-SD | 402 | 357 | 433 | 371 | 2 | 34 |
| KUS-25-240-SD | 484 | 439 | 515 | 453 | 3 | 44 |

**Ref. No.**

KUS-25-60-SD  
KUS-25-120-SD  
KUS-25-180-SD  
KUS-25-240-SD

51548  
51549  
51550  
51551

## SPECIAL ACCESSORIES KUS



## INSTALLATION KITS FOR COMPENSATING SPRING

Tension spring with clamping bolt and two hexagon nuts for installation for vertical application:

## Ref. No.

|                                                           |              |
|-----------------------------------------------------------|--------------|
| Installation kit for compensating spring to KUS-16-20-SD  | <b>51631</b> |
| Installation kit for compensating spring to KUS-16-40-SD  | <b>51632</b> |
| Installation kit for compensating spring to KUS-16-60-SD  | <b>51633</b> |
| Installation kit for compensating spring to KUS-16-80-SD  | <b>51634</b> |
| Installation kit for compensating spring to KUS-20-40-SD  | <b>51635</b> |
| Installation kit for compensating spring to KUS-20-80-SD  | <b>51636</b> |
| Installation kit for compensating spring to KUS-20-120-SD | <b>51637</b> |
| Installation kit for compensating spring to KUS-20-160-SD | <b>51638</b> |
| Installation kit for compensating spring to KUS-25-60-SD  | <b>51639</b> |
| Installation kit for compensating spring to KUS-25-120-SD | <b>51640</b> |
| Installation kit for compensating spring to KUS-25-180-SD | <b>51641</b> |
| Installation kit for compensating spring to KUS-25-240-SD | <b>51642</b> |