



### The Loewe® GK series



#### Torque

Resists axial motion  
Bore diameter up to 50 mm  
Torque ( $T_{KN}$ ) 44 Nm to 220 Nm



#### Linear

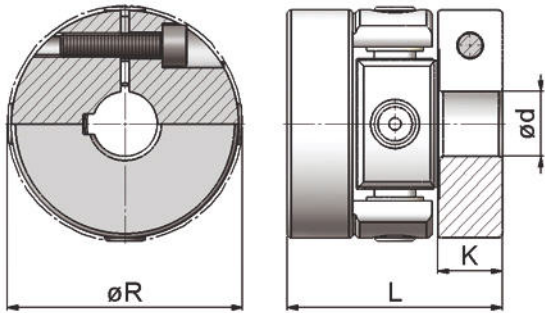
Precise transmission of  
push-pull loads  
Bore diameter up to 50 mm  
Thread diameter up to size M27  
Max. Lift force: 13,000N

### Loewe® GK

Loewe® GK Link coupling: Generous angular and radial displacement compensation is united with high axial stiffness. The compact coupling combines angular and radial displacements with absorption, at the same time, of higher axial push and pull forces, without length changes. It is also designed for the precise transfer of linear actuating movements.

### Linear

The coupling is for applications where purely linear push and pull forces have to be transmitted precisely. This type of load transmission can be found, for example, with servomotors, cylinders and piston drives. For fixing to piston rods the range can be provided, as an option, with internal and external threads.



|          | ØR (mm) | L (mm) | Ød <sub>max</sub> (mm) | K (mm) | m (kg) | F <sub>d</sub> (N) | ΔK <sub>r</sub> (mm) | ΔK <sub>w</sub> (°) |
|----------|---------|--------|------------------------|--------|--------|--------------------|----------------------|---------------------|
| GK L 27  | 33      | 36     | 11                     | 10,5   | 0,05   | 800                | 1                    | 3                   |
| GK L 35  | 41      | 37     | 16                     | 12,5   | 0,09   | 1.000              | 1,5                  | 3                   |
| GK L 56  | 57      | 53     | 30                     | 15     | 0,3    | 4.000              | 2                    | 3                   |
| GK L 75  | 84      | 83     | 40                     | 25     | 0,8    | 7.500              | 2                    | 3                   |
| GK L 100 | 109     | 97     | 50                     | 27,5   | 1,8    | 13.000             | 2,5                  | 3                   |

Order Example 1: GK L 27 Ø6 Ø8    Order Example 2: GK L 27 M10 M10

|                               |                 |
|-------------------------------|-----------------|
| GK L 27                       | M10 M10         |
| Type Loewe® Linear GK GK L 27 | Thread diameter |

To ensure the correct selection of the Loewe® GK please use our 'selection procedure and legend' page at the end to obtain the required information.

The life of the coupling will be determined by the operating loads and misalignments. The influences of torque and misalignment are described below.

1. The maximum torque  $T_{K \max}$  may not be exceeded while operating. The design torque results from the continuous torque rating at the coupling after due consideration of the level of misalignment. Transmittable torque will decrease with rising speed (rpm), or rising misalignment.
  
2. The radial misalignment  $\Delta K_r$  should never be exceeded. With continuous torques, increasing misalignments lead to increased linear movement in the bearings and, consequently, to increasing wear. Please choose a larger size of coupling with a higher torque capacity, if necessary.
  
3. The angular misalignment  $\Delta K_w$  should never be exceeded. With continuous torques, increasing misalignment leads to increased swivelling in the bearings and, consequently, to increasing wear. Please choose a larger size of coupling with a higher torque capacity if necessary.

## Legend

### Performance

|              |   |
|--------------|---|
| $T_{KN}$     | continuous torque rating of the coupling (Nm) |
| $T_{K \max}$ | maximum torque capacity of the coupling (Nm)  |
| $F_a$        | maximum axial loads (N)                       |
| $n_{\max}$   | maximum speed of the coupling (1/min)         |
| $\Delta K_r$ | maximum radial misalignment capacity (mm)     |
| $\Delta K_a$ | maximum axial misalignment capacity (mm)      |
| $\Delta K_w$ | maximum angular misalignment capacity (°)     |

### Dimensions

|                        |                             |
|------------------------|-----------------------------|
| $\varnothing R$        | swing diameter (mm)         |
| L                      | coupling length (mm)        |
| K                      | clamp hub length (mm)       |
| $\varnothing d_{\max}$ | maximum bore diameter (mm)  |
| $\varnothing d_{\min}$ | minimum bore diameter (mm)  |
| m                      | weight of the coupling (kg) |