



### 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

### Loewe® GK

Loewe® GK: The axially fixed Loewe® GK is designed to offer generous angular and radial misalignment compensation together with high axial stiffness.

Loewe® GK is designed to resist axial motion and for precise transmission of pure linear motion for use in cylinder systems.

### Selection procedure and legend

The selection procedure ensures the correct selection of the Loewe® GK in consideration to the different operational conditions. The following legend will describe the acronyms shown in the column of the tables.

The life cycle of couplings will be determined by the existing loads and misalignments. The influences of torques and misalignment are described as follows.

1. The maximum torque  $T_{K_{max}}$  may not be exceeded while operating. The design torque is determined from the continuous torque rating of the coupling in due consideration with the height of the misalignment capacity. The transferable torque will decrease with rising speed (rpm) or rising misalignment.
2. The radial misalignment  $K_r$  should not be exceeded. With continuous torques increasing misalignments lead to an increased linear movement in the bearings and consequently to an increasing wear. Please choose a larger size of coupling with a higher torque capacity if applicable.
3. The angular misalignment  $K_w$  should not be exceeded. With continuous torques increasing misalignment leads to an increased lagging in the bearings and consequently to an increasing wear. Please choose a larger size of coupling with a higher torque capacity if applicable.

## 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 (°)     |

### Dimension

|                       |                             |
|-----------------------|-----------------------------|
| $\varnothing R$       | 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) |