



The Loewe® GK series



Torque

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



Linear

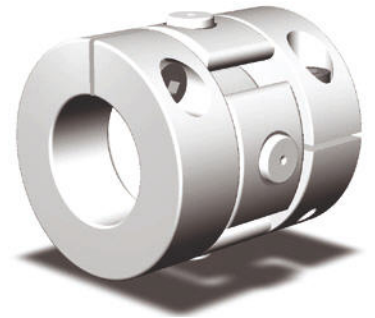
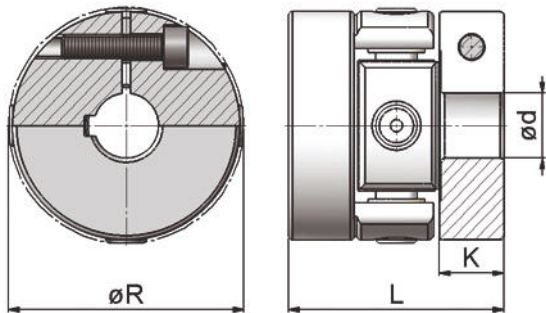
Precise transmission of
push-pull loads
Bore diameter up to 50 mm
Thread diameter up to size M27
Max. lift force: 13,000N

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.

Torque

The coupling range is for applications where on the one hand a torque has to be transmitted, but in addition it can still be loaded with axial push and pull forces, or in addition has to take over axial guidance duties absolutely. Because of their kinematic characteristics, they offer a generous angular and radial displacement capacity.



	ØR (mm)	L (mm)	Ød _{max} (mm)	K (mm)	m (kg)	T _{KN} (Nm)	TK _{max} (Nm)	ΔK _v (mm)	ΔK _w (°)	n _{max} (1/min)
GK 27	33	36	11	10,5	0,05	4	9	1	3	4.000
GK 35	41	37	16	12,5	0,09	7	15	1,5	3	3.500
GK 56	57	53	30	15	0,3	33	95	2	3	2.500
GK 75	84	83	40	25	0,8	90	240	2	3	2.500
GK 100	109	97	50	27,5	1,8	220	550	2,5	3	1.500

Order Example 1: GK 27 Ø6 Ø8 Order Example 2: GK 56 Ø20 Ø20N

GK 56	Ø20 Ø20N
Type Loewe® GK Torque GK 56	bore diameters

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 ΔK_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 ΔK_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)
ΔK_r	maximum radial misalignment capacity (mm)
ΔK_a	maximum axial misalignment capacity (mm)
ΔK_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)