Loewe® GK Linear

Precise transmission of push-pull loads

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.

Linear

The Loewe® GK series for applications purely transmitting axial force. The Loewe® GK Linear series is also available with inner and outer threads.

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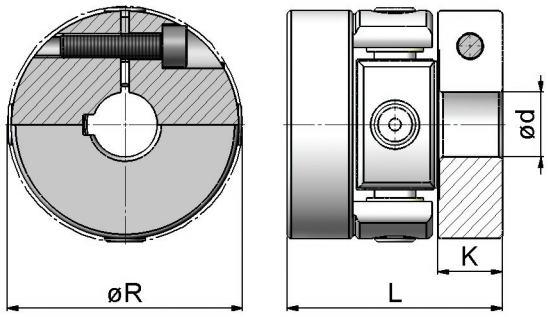
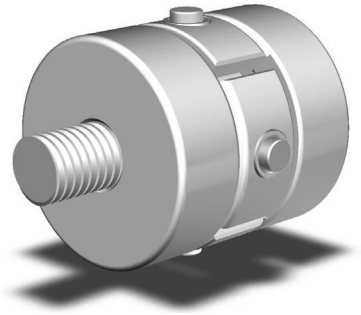
Loewe® GK L Linear

Precise transmission of push-pull loads





	ØR (mm)	L (mm)	Ød$_{max}$ (mm)	K (mm)	m (kg)	F$_a$ (N)	ΔK$_r$ (mm)	ΔK$_w$ (°)
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	61	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 area to download the required information.

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The life cycle of couplings will determines 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 follows 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 continous torques increasing misalignments keeps to a increased linear movement in the bearings and consequently to a 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 continous torques increasing misalignment keeps to a increased lagging in the bearings and consequently to a 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)
ΔK_r	maximum radial misalignment capacity (mm)
ΔK_a	maximum axial misalignment capacity (mm)
ΔK_w	maximum angular misalignment capacity (°)

Dimension

ØR	swing diameter (mm)
L	coupling length (mm)
K	clamp hub length (mm)
Ød $_{max}$	maximum bore diameter (mm)
Ød $_{min}$	minimum bore diameter (mm)
m	weight of the coupling (kg)

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