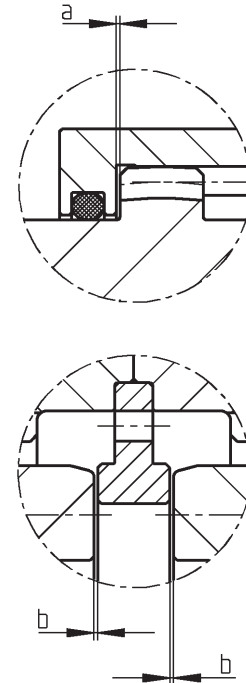
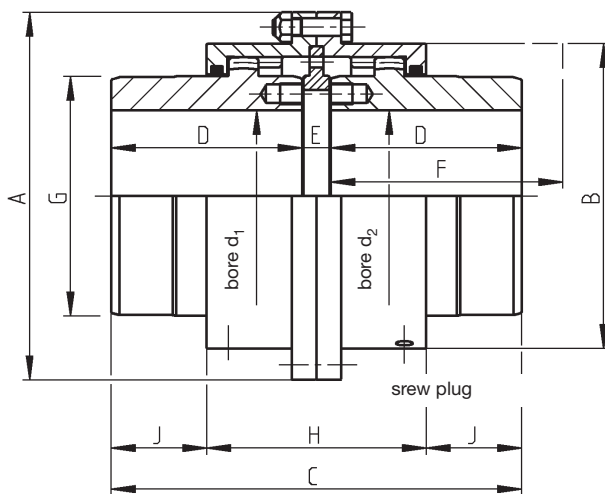


Curved Tooth Couplings

Construction Series LBRkn

Dimension Table No. 243 351



The construction series LBRkn is equipped with a retaining plate for end float limitation. For these types, the permissible angular misalignment depends on the axial clearances a and b.

For coupling selection, please see page 6.

The dismounting dimension F is required to allow vertical installation and removal of the machines and O-ring replacement.

Other sizes available on request.

For torsional stiffness values, please see the data tables for LBK-type couplings.

The maximum static parallel misalignment is to be calculated from the values of the comparable LBK-types with the factor 0.8.

1) The permissible angular misalignment $\Delta K_{w \text{ perm.}}$ is 0.6° per coupling half, based on the values stated in the list.

The axial clearances a and b can be varied if the operation conditions require so.

2) Values for the complete coupling with bore $d_1; d_{2 \text{ max.}}$

3) The maximum speed capacity depends on the misalignment. Please see table 'Speed Factors'.

Type LBRkn	Norm. cont. duty	Speed ³⁾	Dimensions											Axial clearances ¹⁾					
			bore $d_1; d_2$		A	B	C	D	E	F	G	H	J	a and b	Total grease quantity	Mass ²⁾ moment of inertia J	Weight ²⁾		
Size	$\frac{P_{KN}}{n}$	$n_{\text{max.}}$	min	max	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg	kgm ²	kg
32	0.050	8500	12	35	105	74	113	50	13	80	48	90	11.5	0.5	0.03	0.004	3.1		
38	0.082	7500	12	42	115	88	134	60	14	90	60	101	16.5	0.5	0.04	0.006	4.5		
48	0.146	6900	22	55	145	108	154	70	14	100	77	102	26.0	0.5	0.06	0.016	7.3		
60	0.288	6300	22	65	165	125	177	80	17	110	90	107	35.0	0.5	0.10	0.027	9.8		
70	0.50	5900	28	80	195	146	197	90	17	120	112	112	42.5	0.5	0.15	0.062	15.4		
80	0.82	5400	28	92	215	168	218	100	18	130	128	119	49.5	0.5	0.22	0.102	21.0		
90	1.14	5000	32	105	230	185	240	110	20	140	145	127	56.5	0.5	0.29	0.15	26.5		
100	1.64	4700	32	115	265	210	271	125	21	150	160	148	61.5	0.5	0.44	0.29	39.8		
110	2.30	4300	55	126	270	224	301	140	21	170	176	161	70.0	1.0	0.55	0.38	47.5		
125	2.88	4000	65	145	305	245	325	150	25	180	200	175	75.0	1.0	0.79	0.66	64.4		
140	4.60	3700	75	162	330	270	367	170	27	200	224	197	85.0	1.0	0.90	1.07	85.0		
160	6.48	3400	85	185	375	305	409	190	29	230	256	221	94.0	1.0	1.23	1.57	124.0		
180	9.24	3100	120	210	425	348	474	220	34	260	288	250	112.0	1.0	1.90	3.72	183.0		
200	12.92	2900	140	230	470	392	536	250	36	300	320	272	132.0	1.0	2.40	6.39	252.0		
225	18.4	2700	160	260	535	437	599	280	39	330	362	315	142.0	1.0	3.70	11.5	357.0		

Subject to change due to technical improvement.