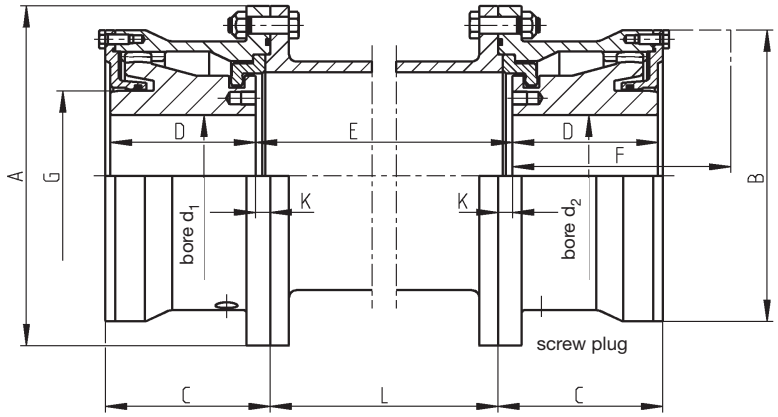
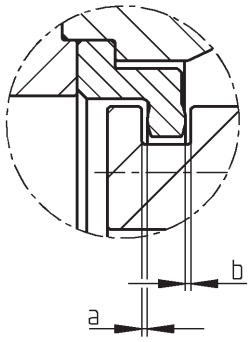
Curved Tooth Couplings

Construction Series SRL

Dimension Table No. 243 131





The construction series SRL is equipped with two Z-shaped retaining rings for end float limitation. For these types, the permissible angular misalignment depends on the axial clearances a and b.

Torsional stiffness values, mass moments of inertia for couplings with spacer, and weight details are contained in the data table for SB-type couplings.

Sizes 30 to 200 are available from stock, without spacer.
Other sizes available on request.

The dismounting dimension F is required for the vertical installation and removal of the machines and for mounting the retaining rings and O-rings.

1) The speed n_{max} depends on the length and weight of the spacer.

The maximum speed capacity is determined by the misalignment.
Please see table 'Speed Factors'.

2) The permissible angular misalignment $\Delta K_{w\ perm.}$ 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.

3) Values for the complete coupling without spacer, with bore $d_1;d_{2\ max.}$

For coupling selection, please see page 6.

Type SRL Size	Norm. cont. duty $\frac{P_{KN}}{n}$ kW·min	Speed 1) $n_{max.}$ rpm	Dimensions bore $d_1;d_2$ pre mm	min mm	max mm	A mm	B mm	C mm	D mm	F mm	G mm	K mm	L mm	Axial clearances 2) a and b mm	Total grease 3) quantity kg	Total oil 3) quantity litres	Mass 3) moment of inertia J kgm^2	Weight 3) kg
30	0.082	7500	10	12	32	118	92	55	50	75	45	3.5	E- 7	0.5	0.09	0.09	0.01	4.7
40	0.146	6900	20	22	46	145	115	68.5	60	90	60	7	E-14	0.5	0.17	0.17	0.02	8.3
50	0.288	6300	20	22	58	165	135	78.5	70	110	75	7	E-14	0.5	0.27	0.27	0.04	12.4
60	0.50	5900	26	28	70	200	160	91.5	80	120	90	9	E-18	0.5	0.45	0.45	0.09	20.0
70	0.82	5400	26	28	78	220	178	102	90	130	100	9	E-18	0.5	0.59	0.59	0.14	27.7
80	1.14	5000	30	32	92	240	196	112	100	150	120	9	E-18	0.5	0.77	0.77	0.22	34
90	1.64	4700	30	32	100	270	225	126	110	170	130	12	E-24	0.5	1.3	1.3	0.42	53
100	2.30	4300	53	55	110	280	240	136	120	180	140	12	E-24	1.0	1.5	1.5	0.54	60
110	2.88	4000	63	65	120	310	265	146	130	190	155	12	E-24	1.0	1.9	1.9	0.88	79
125	4.60	3700	73	75	138	340	295	170	150	215	175	15	E-30	1.0	2.5	2.5	1.70	108
140	6.48	3400	83	85	156	390	325	185	165	230	200	15	E-30	1.0	3.2	3.2	2.55	153
160	9.24	3100	118	120	180	435	370	213	190	270	230	17	E-34	1.0	4.7	4.7	4.71	217
180	12.92	2900	138	140	200	480	415	239	220	300	260	17	E-34	1.0	7.2	7.2	8.1	306
200	18.4	2700	158	160	225	545	465	269	245	340	290	20	E-40	1.0	11.0	11.0	14.5	443
220	25.6	2400	158	160	250	580	510	294	270	360	355	24	E-48	1.5	11.8	11.8	21.4	559
240	32.8	2200	178	180	275	645	560	316	290	380	390	26	E-52	1.5	12.8	12.8	33.5	722
260	41.0	2100	198	200	295	680	595	338	310	400	415	28	E-56	1.5	14.4	14.4	45.7	872
280	51.4	2000	218	220	325	745	660	370	340	440	460	30	E-60	1.5	17.5	17.5	75	1170
300	64.8	1900	238	240	340	775	675	390	360	470	480	30	E-60	1.5	21.5	21.5	91.4	1335
320	82.0	1800	258	260	375	825	725	410	380	500	525	30	E-60	1.5	22	22	128	1610
340	98.6	1700	278	280	400	915	795	430	390	520	560	40	E-80	1.5	29	29	198	2040

Subject to change due to technical improvement.