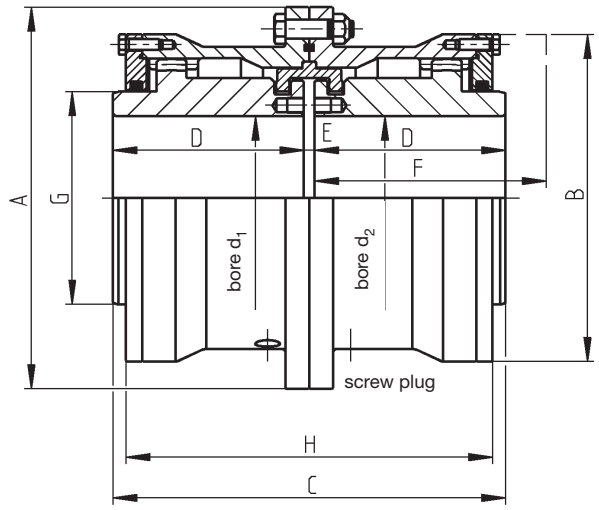
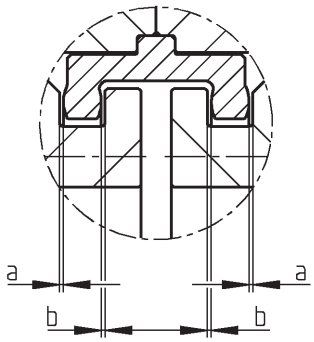
Curved Tooth Couplings

Construction Series SBRk

Dimension Table No. 243 128/ 1





The construction series SBRk is equipped with a U-shaped retaining ring 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 for the vertical installation and removal of the machines as well as for mounting the retaining ring and the O-rings.

Other sizes available on request.

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

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

1) 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.

2) Values for the complete coupling with bore d_1;$_{d2\ max.}$

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

Type SBRk Size	Norm. cont. duty $\frac{P_{KN}}{n}$ kW·min	Speed [3] $n_{max.}$ rpm	bore $d_1;d_2$ min mm	bore $d_1;d_2$ max mm	Dimensions A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	Axial clearances [1] a and b mm	Total grease quantity kg	Mass [2] moment of inertia J kgm^2	Weight [2] kg
38	0.082	7500	12	40	118	92	125	60	5	90	52	117	0.5	0.07	0.008	5.1
48	0.146	6900	22	50	145	115	145	70	5	100	71	138	0.5	0.14	0.022	9.0
60	0.288	6300	22	63	165	135	166	80	6	110	83	158	0.5	0.21	0.041	12.8
70	0.50	5900	28	75	200	160	186	90	6	120	103	181	0.5	0.28	0.10	22
80	0.82	5400	28	85	220	178	206	100	6	130	116	203	0.5	0.44	0.16	29
90	1.14	5000	32	95	240	196	228	110	8	140	133	223	0.5	0.60	0.25	37
100	1.64	4700	32	105	270	225	258	125	8	150	142	249	0.5	0.90	0.49	55
110	2.30	4300	55	115	280	240	288	140	8	170	156	269	1.0	1.0	0.65	65
125	2.88	4000	65	130	310	265	310	150	10	180	177	290	1.0	1.1	1.10	86
140	4.60	3700	75	150	340	295	350	170	10	200	200	335	1.0	1.4	1.83	119
160	6.48	3400	85	170	390	325	392	190	12	230	230	365	1.0	1.7	3.12	167
180	9.24	3100	120	190	435	370	452	220	12	260	261	422	1.0	2.8	5.75	243
200	12.92	2900	140	210	480	415	514	250	14	300	296	482	1.0	4.6	9.6	337
225	18.4	2700	160	240	545	465	576	280	16	330	338	539	1.0	7.1	17.8	475

Subject to change due to technical improvement.