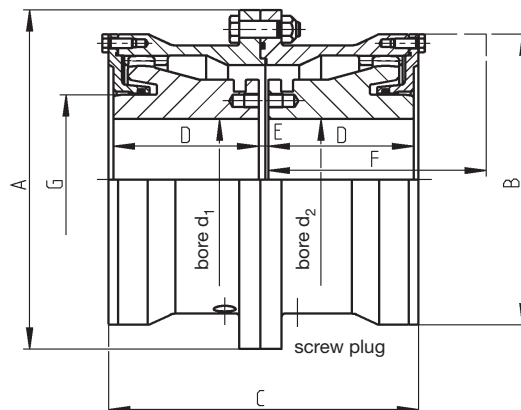


Curved Tooth Couplings



Construction Series SB

Dimension Table No. 243 125/1 Page 1



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.

Sizes 30 to 200 available from stock.
Other sizes available on request.

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

1) Based on a permissible angular misalignment of $\Delta K_{w \text{ perm.}} = 1.5^\circ$ per coupling half.

Higher misalignment capacity is possible, but requires special measures.

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 SB	Norm. cont. duty $\frac{P_{KN}}{n}$ kW-min	Speed ³⁾ $n_{max.}$ rpm	Dimensions										Max. static ¹⁾ radial misalign- ment $\Delta K_{max.}$ mm	Total grease quantity kg	Total oil quantity litres	Mass ²⁾ moment of inertia J kgm ²	Weight ²⁾ kg
			Bore $d_1; d_2$			A	B	C	D	E	F	G					
Size			pre mm	min mm	max mm	mm	mm	mm	mm	mm	mm	mm					
30	0.082	7500	10	12	32	118	92	108	50	5	75	45	±1.95	0.09	0.03	0.006	4.4
40	0.146	6900	20	22	46	145	115	128	60	5	90	60	±2.70	0.09	0.04	0.017	7.5
50	0.288	6300	20	22	58	165	135	148	70	5	110	75	±3.00	0.17	0.07	0.033	11.2
60	0.50	5900	26	28	70	200	160	172	80	6	120	90	±3.45	0.25	0.11	0.082	18.4
70	0.82	5400	26	28	78	220	178	192	90	6	130	100	±3.90	0.35	0.15	0.133	26
80	1.14	5000	30	32	92	240	196	212	100	6	150	120	±4.35	0.40	0.20	0.200	32
90	1.64	4700	30	32	100	270	225	236	110	8	170	130	±4.80	0.60	0.30	0.38	47
100	2.30	4300	53	55	110	280	240	256	120	8	180	140	±5.25	0.75	0.35	0.49	54
110	2.88	4000	63	65	120	310	265	276	130	8	190	155	±5.70	1.00	0.45	0.82	72
125	4.60	3700	73	75	138	340	295	320	150	10	215	175	±6.45	1.3	0.65	1.35	100
140	6.48	3400	83	85	156	390	325	350	165	10	230	200	±7.20	1.6	0.85	2.41	142
160	9.24	3100	118	120	180	435	370	404	190	12	270	230	±8.40	2.6	1.4	4.3	199
180	12.92	2900	138	140	200	480	415	456	220	12	300	260	±9.60	3.3	1.8	7.5	285
200	18.4	2700	158	160	225	545	465	512	245	14	340	290	±10.80	4.8	2.5	14.1	420
220	25.6	2400	158	160	250	580	510	556	270	16	360	355	±12.00	5	2.5	19.7	514
240	32.8	2200	178	180	275	645	560	598	290	18	380	390	±12.80	7	3.5	29.9	657
260	41.0	2100	198	200	295	680	595	640	310	20	400	415	±13.50	8	4	42.3	797
280	51.4	2000	218	220	325	745	660	702	340	22	440	460	±14.25	10	6	69	1065
300	64.8	1900	238	240	340	775	675	744	360	24	470	480	±15.00	11	8	84	1220
320	82.0	1800	258	260	375	825	725	786	380	26	500	525	±16.50	13	9	119	1470
340	98.6	1700	278	280	400	915	795	808	390	28	520	560	±16.50	20	11	184	1870
360	118.3	950	297	300	420	960	840	830	400	30	540	590	±16.50	26	12	244	2245
380	138.0	900	317	320	445	1010	890	870	420	30	560	625	±18.00	29	13	345	2610
400	165.1	875	337	340	460	1050	925	890	430	30	580	650	±18.00	32	15	368	2780

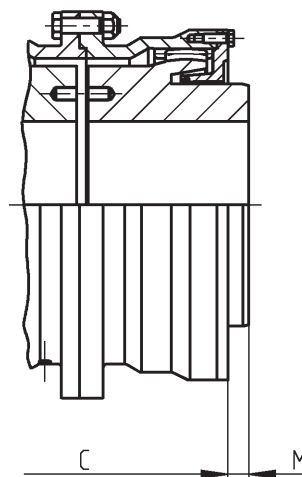
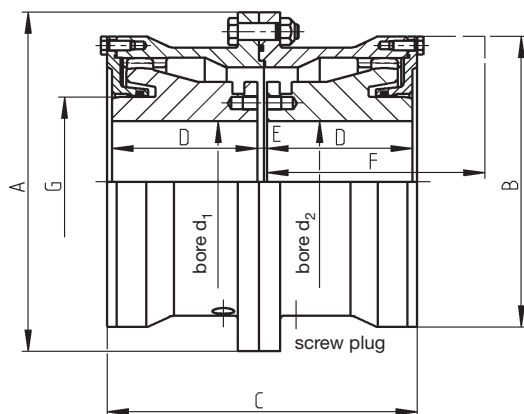
Subject to change due to technical improvement.

Curved Tooth Couplings



Construction Series SB

Dimension Table No. 243 125/1 Page 2



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.

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

1) Based on a permissible angular misalignment of $\Delta K_{w \text{ perm.}} = 1.5^\circ$ per coupling half.

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'.

Higher misalignment capacity is possible, but requires special measures.

Other sizes available on request.

Type SB	Norm. cont. duty $\frac{P_{KN}}{n}$	Speed ³⁾ $n_{max.}$ rpm	Dimensions											Max. static ¹⁾ radial misalign- ment $\Delta K_{max.}$ mm	Total grease quantity kg	Total oil quantity litres	Mass ²⁾ moment of inertia J kgm ²	Weight ²⁾ kg
			bore $d_1; d_2$			A	B	C	D	E	F	G	M					
Size			pre mm	min mm	max mm	mm	mm	mm	mm	mm	mm	mm	mm					
420	184.8	850	357	360	485	1120	970	930	450	30	610	690	–	±18.00	34	16	486	3324
440	220.8	825	377	380	505	1160	990	950	460	30	630	715	–	±18.00	37	18	658	3502
460	247.2	800	397	400	535	1210	1060	958	480	30	650	760	16	±19.50	45	19	768	4058
480	276.0	770	417	420	555	1250	1080	968	500	40	680	790	36	±19.50	47	21	870	4421
500	307.2	750	437	440	600	1310	1170	1005	525	40	710	852	42.5	±19.50	48	23	1071	5088
525	345.6	725	457	460	605	1340	1200	1030	550	40	760	860	55	±19.50	50	26	1276	5487
550	393.6	700	477	480	640	1390	1240	1050	580	40	800	910	75	±19.50	59	29	1649	6284
575	444.0	675	497	500	670	1460	1325	1250	600	50	820	950	95	±19.50	60	32	1920	7325
600	523.2	650	522	525	700	1490	1360	1310	630	50	860	990	125	±19.50	64	35	2120	7740
625	616.8	625	547	550	730	1550	1385	1350	650	50	890	1030	145	±18.00	66	38	2493	8380
650	688.8	600	572	575	755	1660	1510	1410	680	50	920	1070	175	±18.00	68	42	3147	9863
675	775.2	575	597	600	790	1710	1545	1450	700	50	940	1120	195	±18.00	84	46	3696	10546
700	873.6	550	622	625	820	1760	1620	1510	730	50	970	1160	225	±18.00	105	50	5036	12058

Subject to change due to technical improvement.