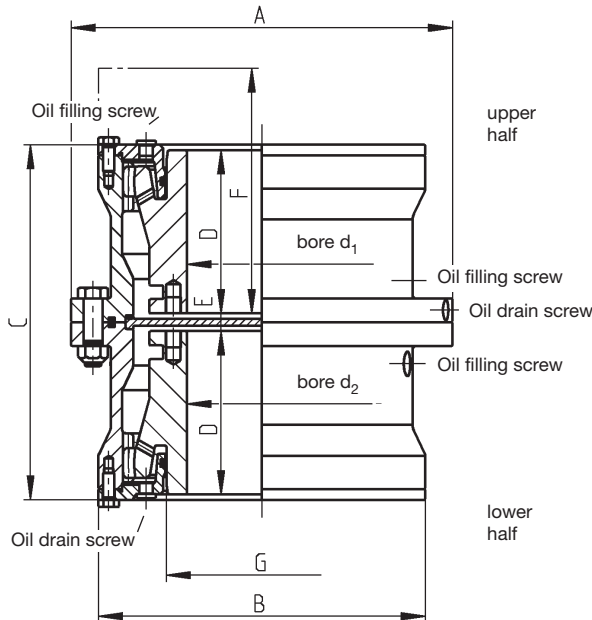


Curved Tooth Couplings

Construction Series VSB

Dimension Table No. 243 143



Required oil quantity for oil lubrication				
Coupling size	min. speed		max. speed	
	upper half litres	lower half litres	upper half litres	lower half litres
30	0.070	0.016	0.04	0.016
40	0.095	0.025	0.05	0.025
50	0.17	0.07	0.06	0.07
60	0.29	0.11	0.13	0.11
70	0.36	0.15	0.16	0.15
80	0.50	0.21	0.22	0.21
90	0.78	0.31	0.35	0.31
100	0.98	0.43	0.40	0.43
110	1.3	0.57	0.54	0.57
125	1.6	0.70	0.68	0.70
140	2.1	0.93	0.9	0.93
160	3.1	1.3	1.3	1.3
180	4.5	1.5	2.0	1.5
200	6.8	2.3	2.8	2.3

Couplings of the VSB series are intended for vertical installation. They are equipped with two separate lubricant chambers and optionally suitable for oil or grease lubrication.

In case of oil lubrication, it has to be observed that different oil quantities are required for the lower and upper speed range.

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

For coupling selection, please see page 6.

The couplings can also be supplied with a spacer or intermediate shaft so as to accommodate larger shaft distances.

Torsional stiffness values are contained in the data table for SB type couplings.

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

Higher misalignments are possible, but require special measures.

2) Values for the complete coupling, with bore $d_1; d_2 \text{ max.}$

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

Other sizes available on request.

Type VSB	Norm. cont. duty $\frac{P_{KN}}{n}$	Speed ³⁾		Dimensions										Max. static radial misalignment $\Delta K_{r \text{ max.}}^{1)}$	Grease quantity at min. and max. speed		Mass ²⁾ moment of inertia J	Weight ²⁾
		min rpm	max rpm	pre mm	min mm	max mm	A mm	B mm	C mm	D mm	E mm	F mm	G mm		upper half kg	lower half kg		
30	0.082	1300	7500	10	12	32	118	92	110	50	7	75	45	±1.95	0.070	0.016	0.007	4.6
40	0.146	1300	6900	20	22	46	145	115	131	60	8	90	60	±2.70	0.095	0.025	0.018	7.9
50	0.288	1300	6300	20	22	58	165	135	151	70	8	110	75	±3.00	0.17	0.07	0.035	11.8
60	0.50	900	5900	26	28	70	200	160	175	80	9	120	90	±3.45	0.29	0.11	0.084	19.1
70	0.82	900	5400	26	28	78	220	178	197	90	11	130	100	±3.90	0.36	0.15	0.14	27
80	1.14	900	5000	30	32	92	240	196	217	100	11	150	120	±4.35	0.50	0.21	0.21	34
90	1.64	650	4700	30	32	100	270	225	241	110	13	170	130	±4.80	0.78	0.31	0.40	49
100	2.30	650	4300	53	55	110	280	240	261	120	13	180	140	±5.25	0.98	0.43	0.57	56
110	2.88	650	4000	63	65	120	310	265	282	130	14	190	155	±5.70	1.3	0.57	0.85	75
125	4.60	650	3700	73	75	138	340	295	325	150	15	215	175	±6.45	1.6	0.70	1.40	104
140	6.48	500	3400	83	85	156	390	325	355	165	15	230	200	±7.20	2.1	0.93	2.50	147
160	9.24	500	3100	118	120	180	435	370	410	190	18	270	230	±8.40	3.1	1.3	4.41	204
180	12.92	500	2900	138	140	200	480	415	462	220	18	300	260	±9.60	4.5	1.5	7.62	292
200	18.4	500	2700	158	160	225	545	465	519	245	21	340	290	±10.80	6.8	2.3	14.3	430

Subject to change due to technical improvement.