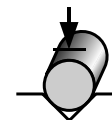
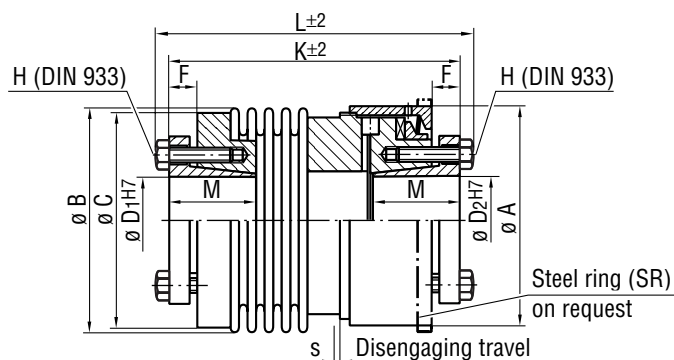


Backlash-free safety couplings



Series DBK/B with inner conical hubs



Technical data – series DBK/B

TYPE		30	60	150	200	300	500	800	1200	1600
Disengaging torque adjustable	T _{KN} Version a	5–15	12–35	30–80	30–90	60–200	80–250	240–600	360–1000	360–1000
	T _{KN} Version b	10–30	20–60	65–150	60–200	100–300	200–500	500–800	900–1400	900–1600
Moment of inertia (10 ⁻³ Kgm ²)	J Hub side	0.21	0.53	1.3	2.1	4.3	11.3	36	36	40
	J Metal bellows side	0.11	0.27	0.7	1.1	2.2	5.7	18	18	20
Weight (appr. kg)	m	0.7	1.5	2.5	3.2	5.5	7.1	19	20	22
Tightening torque of retaining screws (Nm)	M _A	5	7	14	14	18	26	45	80	90
Max. permissible misalignment										
- radial (mm)	ΔK _r	0.1/0.2	0.1/0.2	0.2/0.2	0.2/0.2	0.2/0.2	0.2/0.2	0.2	0.2	0.2
- axial (mm)	ΔK _a	0.4/0.5	0.4/0.5	0.4/0.5	0.4/0.5	0.4/0.5	0.5/1.0	0.5	0.5	0.5
- angular (degrees)	ΔK _w	1.0/1.5	1.0/1.5	1.0/1.5	1.0/1.5	1.0/1.5	1.0/1.5	1.0	1.0	1.0
Dynamic torsional stiffness (10 ³ Nm/rad)	C _{T dyn}	36/26	73/49	151/101	173/116	499/280	680/310	758	1266	2800
Radial spring stiffness (N/mm)	C _r	718/222	1125/333	2030/601	1531/450	6328/1470	8800/972	512	706	2950
Axial spring stiffness (N/mm)	C _a	48/27	91/53	147/86	147/85	284/153	105/86	186	278	310
Max. rotational speed (rpm)	n _{max}	9550	8180	6220	5720	5200	4475	3390	3390	2935
Disengaging travel (mm)	s	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2

Dimensions (mm) – series DBK/B

TYPE		30	60	150	200	300	500	800	1200	1600
Ø A		60	70	92	100	110	128	169	169	195
Ø B		56	66	82	90	110	122	157	157	157
Ø C		52	63	80	86	110	122	140	140	152
Ø D ₁	min. – max.	12–20	15–25	20–35	20–40	30–50	35–55	40–70	40–70	70–90
Ø D ₂	min. – max.	12–20	15–25	20–35	20–40	30–46	35–50	40–60	40–60	70–90
F		8	9	11	11	13	13	20	20	20
H	DIN 933	M5	M6	M6	M6	M8	M8	M16	M16	M12
M		20	25	31	31	33	38	60	60	60
K	2)	75/83	91/102	108/120	114/127	124/135	139/150	215	215	235
L	2)	82/90	99/110	116/128	122/135	135/146	150/161	235	235	250

- Temperature range: -30 °C to +100 °C
 - Higher temperatures on request

2) Two metal bellows versions with different dynamic torsional stiffnesses are available.
 The lengths L and K therefore vary.