

BK6

Blind mate with conical clamping ring

15 – 1,500 Nm



Features

- Axial mounting possible
- Easy installation and removal due to blind mate
- Naturally very well balanced due to self centering clamping ring system
- Absolutely backlash free assembly

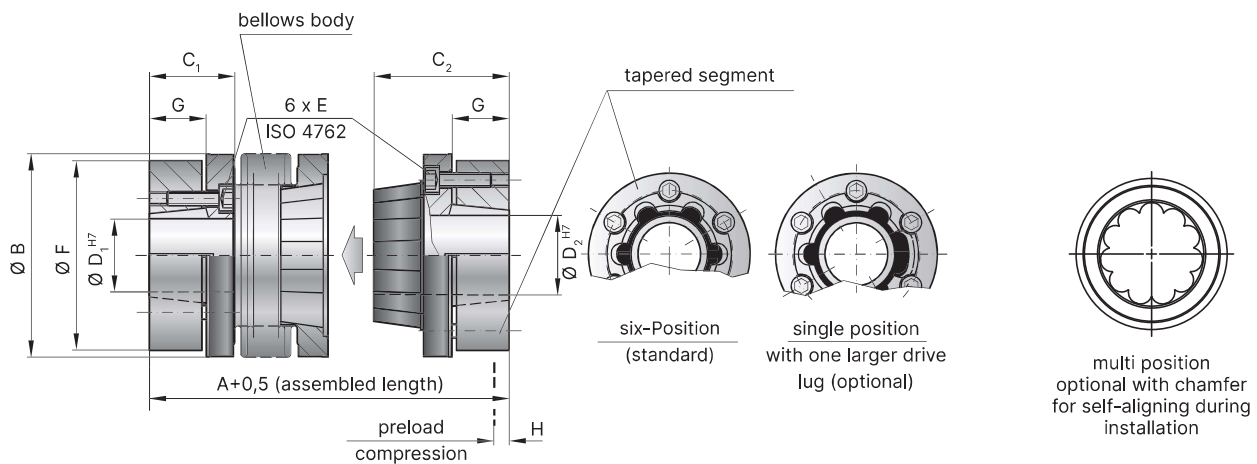
Material

- **Bellows:** high grade stainless steel
- **Hubs:** steel
- **Tapered male segment:** high strength plastic

Design

Two conical clamping ring hubs, one of which has a tapered male projection for blind mate connection.

Brief overloads of up to 1.5x the rated torque are acceptable.



Model BK6

Size			15	30	60	150	300	500	800	1,500
Rated torque	(Nm)	T_{KN}	15	30	60	150	300	500	800	1,500
Overall length (inserted)	(mm)	$A^{+0,5}$	58 65	68 76	79 89	97 109	113 127	132 145	140 158	158
Outside diameter	(mm)	B	49	55	66	81	110	124	133	157
Fit length	(mm)	C_1	13.3	21.5	17.5	30	37	32	42.5	53
Fit length	(mm)	C_2	29	34	39	49.5	59	68	74	90.5
Inside diameter possible from $\emptyset$ to $\emptyset$ H7	(mm)	$D_{1/2}$	10-22	12-24	12-32	15-40	24-56	30-60	40-62	50-75
Fastening screw ISO 4762			M4	M5	M5	M6	M8	M8	M10	M12
Tightening torque of the fastening screw	(Nm)	E	3.5	6.5	8	12	30	32	55	110
Diameter of clamping ring	(mm)	F	46.5	51	60	74	102	114	126	146
Clamping ring length	(mm)	G	9.5	10.5	11.5	17.5	20	23	27	32
Preload compression	(mm)		0.2 - 1.0	0.5 - 1.0	0.5 - 1.5	0.5 - 1.5	0.5 - 1.5	1.0 - 2.0	1.0 - 2.0	0.5 - 1.5
Axial recovery force at maximum pretensioning	(N)	H	20 12	50 30	70 45	82 52	157 106	140 96	400	650
Moment of inertia	(10^{-3} kgm ²)	J_{ges}	0.1 0.12	0.2 0.25	0.4 0.45	2.0 2.5	5.4 6.1	8.4 9.1	17.5	44
Approximate weight	(kg)		0.3 0.32	0.5 0.52	0.82 0.84	1.6 1.7	4.1 4.2	6.0 6.3	8.1	16.2
Torsional stiffness	(10^3 Nm/rad)	C_T	10 8	20 14	38 28	88 55	225 175	255 245	400	660
axial*	$\pm$ (mm)		0.5 1	0.5 1	0.5 1	1 2	1.5 2	2.5 3.5	3	2
lateral	$\pm$ (mm)	Max. values	0.15 0.2	0.2 0.25	0.2 0.25	0.2 0.25	0.25 0.3	0.3 0.35	0.35	0.35
angular	$\pm$ (degree)		1 1.5	1 1.5	1 1.5	1 1.5	1 1.5	1 1.5	1.5	1.5
Lateral spring stiffness	(N/mm)	C_i	475 137	900 270	1,200 420	1,550 435	3,750 1,050	2,500 840	2,000	3,600

* in addition to maximum allowable pretension. Higher torques upon request.