

BK6

BLIND MATE WITH CONICAL CLAMPING RING 15 - 1,500 Nm



PROPERTIES

FEATURES

- ▶ axial mounting possible
- ▶ easy installation and removal
- ▶ naturally very well balanced due to self centering clamping ring system
- ▶ absolutely backlash free assembly

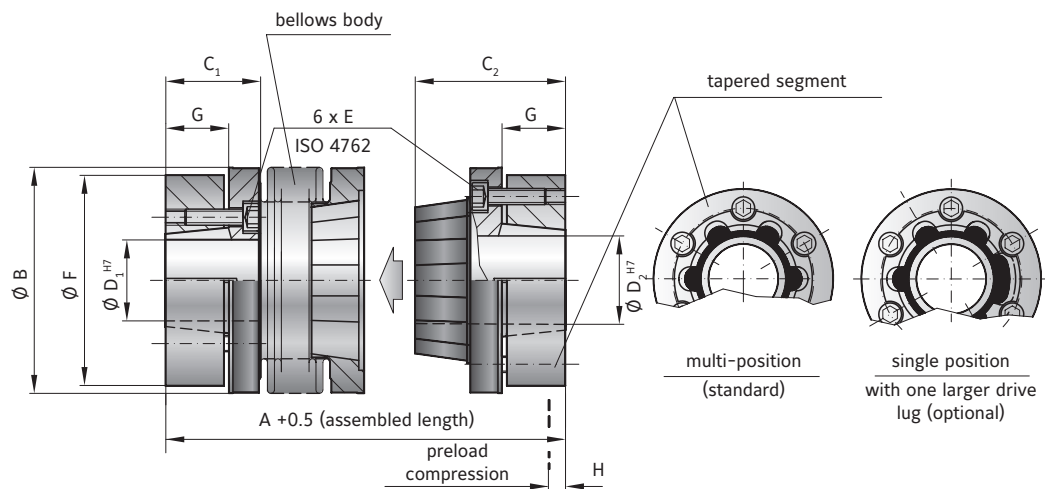
MATERIAL

- ▶ **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	1500						
Rated torque (Nm)	T_{KN}	15	30	60	150	300	500	800	1500						
Overall length (gesteckt) (mm)	$A^{+0.5}$	58 65	68 76	79 89	97 109	113 127	132 145	140	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 \varnothing to \varnothing 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	E	M4	M5	M5	M6	M8	M8	M10	M12						
Tightening torque of the fastening screw (Nm)		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)	H	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)		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)	Max. values	0.5	1	0.5	1	0.5	1	1	2	1.5	2	2.5	3.5	3	2
Lateral \pm (mm)		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_r	475	137	900	270	1200	420	1550	435	3750	1050	2500	840	2000

* in addition to maximum allowable pretension

Higher torques upon request

ORDERING EXAMPLE	BK6	30	76	18	19	XX
Model	●					
Size		●				
Overall length mm			●			
Bore D1 H7				●		
Bore D2 H7					●	
For custom features place an XX at the end of the part number and describe the special requirements (e.g. BK6 / 30 / 76 / 18 / 19 / XX; XX=finely balanced for 25,000 rpm)						

Special designation only (e.g. special bore tolerance).