

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

- ▶ 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.

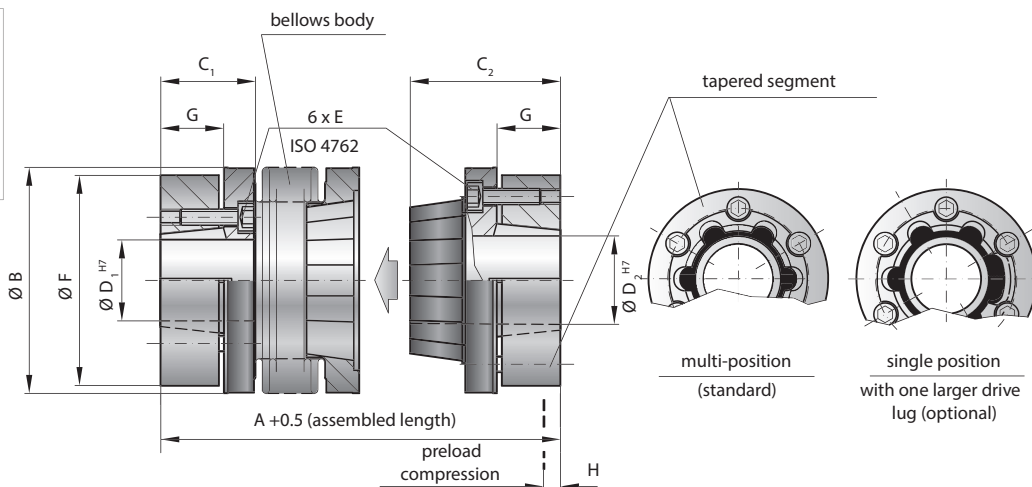
MATERIAL

- ▶ Bellows: high grade stainless steel
- ▶ Hubs: steel

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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 (gesteekt) (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 Ø to Ø 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)	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	●					Special designation only (e.g. special bore tolerance).
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)						