

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

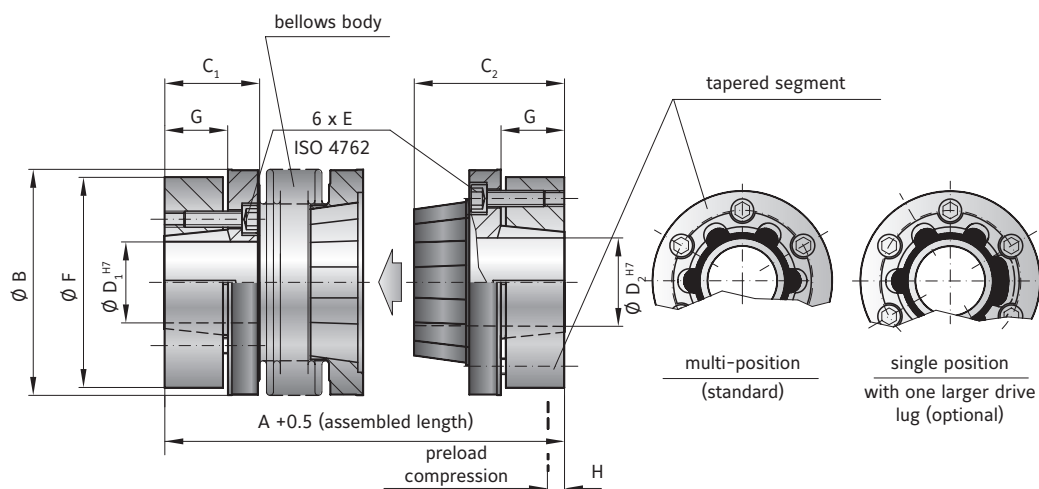
- **Bellows:** high grade stainless steel
- **Hubs:** steel

- **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)	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	
Fit length	(mm)	C ₁		13.3		21.5		17.5		30		37		42.5		53	
Fit length	(mm)	C ₂		29		34		39		49.5		59		68		74	
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	
Fastening screw ISO 4762		E		M4		M5		M5		M6		M8		M8		M10	
Tightening torque of the fastening screw	(Nm)	E		3.5		6.5		8		12		30		32		55	
Diameter of clamping ring	(mm)	F		46.5		51		60		74		102		114		126	
Clamping ring length	(mm)	G		9.5		10.5		11.5		17.5		20		23		27	
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	
Axial recovery force at maximum pretensioning	(N)	H		20 12		50 30		70 45		82 52		157 106		140 96		400	
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	
Approximate weight (kg)		J _{ges}		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	
Torsional stiffness (10 ³ Nm/rad)		C _T		10 8		20 14		38 28		88 55		225 175		255 245		400	
Axial* ± (mm)		Max. values		0.5 1		0.5 1		0.5 1		1 2		1.5 2		2.5 3.5		3	
Lateral ± (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	
Angular ± (degree)		Max. values		1 1.5		1 1.5		1 1.5		1 1.5		1 1.5		1 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).