

# BK1

## WITH FLANGE MOUNTING

15 - 10,000 Nm



### ABOUT

#### FEATURES

- ▶ For simple flange mounting to special drive components
- ▶ custom flange patterns available

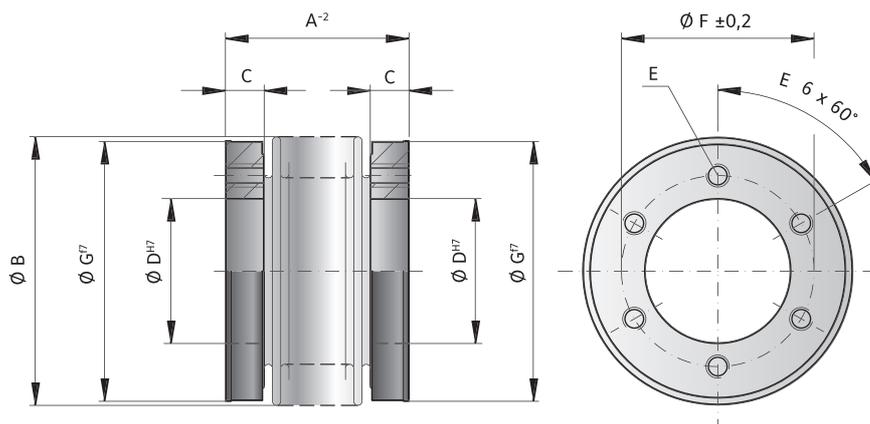
▶ **Hubs:** steel

#### DESIGN

Two mounting flanges concentrically assembled to the flexible bellows. Brief overloads of up to 1.5x the rated torque are acceptable.

#### MATERIAL

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



## MODEL BK1

SIZE		15		30		60		150		200		300		500		800		1500		4000		6000		10000	
Rated torque (Nm)	$T_{KN}$	15		30		60		150		200		300		500		800		1500		4000		6000		10000	
Overall length (mm)	$A^{-2}$	30	37	36	44	43	53	50	62	53	65	56	70	64	77	81	100	145	138	150					
Outside diameter of bellows (mm)	B	49		55		66		81		90		110		124		133		157		200		253		303	
Fit length/thread depth (mm)	C	7.5		10		11		13		14.5		15		16		18		22		30		30		36	
Inside diameter H7 (mm)	D	25		28		38		50		58		65		70		75		85		100		145		190	
Fastening threads	E	6 x M5		6 x M5		6 x M6		6 x M6		6 x M6		6 x M8		6 x M8		6 x M10		6 x M16		6 x M20		8 x M20		8 x M24	
Bolt circle diameter $\pm 0.2$ (mm)	F	35		37		46		62		70		80		94		90		110		140		190		234	
Outside diameter f7 (mm)	G	49		55		66		81		90		110		122		116		140		182		235		295	
Moment of inertia ( $10^{-3}$ kgm <sup>2</sup> )	$J_{ges}$	0.07	0.08	0.14	0.15	0.30	0.32	0.90	0.95	1.30	1.40	1.95	2.10	3.0	3.4	4.3	10.6	46	132	350					
Approximate weight (kg)		0.15		0.2		0.3		0.6		0.8		1.35		1.8		1.9		3.3		8.9		13.9		23.7	
Torsional stiffness ( $10^3$ Nm/rad)	$C_T$	20	15	39	28	76	55	175	110	191	140	450	350	510	500	780	1304	3400	5700	10950					
Axial $\pm$ (mm)		1	2	1	2	1.5	2	2	3	2	3	2.5	3.5	2.5	3.5	3.5	3.5	3.5	3.5	3	3				
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	0.25	0.3	0.3	0.35	0.35	0.35	0.35	0.35	0.4	0.4	0.4			
Angular $\pm$ (degree)		1	1.5	1	1.5	1	1.5	1	1.5	1	1.5	1	1.5	1	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5			
Axial spring stiffness (N/mm)	$C_s$	25	15	50	30	72	48	82	52	90	60	105	71	70	48	100	320	565	1030	985					
Lateral spring stiffness (N/mm)	$C_r$	475	137	900	270	1200	420	1550	435	2040	610	3750	1050	2500	840	2000	3600	6070	19200	21800					

ORDERING EXAMPLE	BK1	150	62	XX
Model	●			Special designation only (e.g. high speed balancing).
Size		●		
Overall length mm			●	
For custom features place an XX at the end of the part number and describe the special requirements (e.g. BK1 / 150 / 62 / XX; XX=finely balanced for 25,000 rpm)				