

BK1

With flange mounting

15 – 10,000 Nm



Feataures

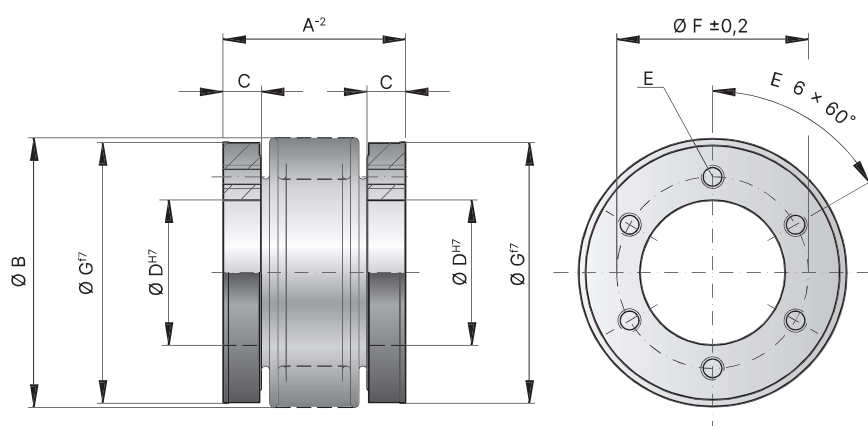
- For simple flange mounting to special drive components
- Custom flange patterns available

Material

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

Design

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



Model BK1

Size		15	30	60	150	200	300	500	800	1,500	4,000	6,000	10,000
Rated torque (Nm)	T_{KN}	15	30	60	150	200	300	500	800	1,500	4,000	6,000	10,000
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 Ø 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 ± 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 ²)	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	1,304	3,400	5,700	10,950
Axial ± (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	3
Lateral ± (mm)		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	0.4	0.4	0.4
Angular ± (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
Axial spring stiffness (N/mm)	C_a	25 15	50 30	72 48	82 52	90 60	105 71	70 48	100	320	565	1,030	985
Lateral spring stiffness (N/mm)	C_r	475 137	900 270	1,200 420	1,550 435	2,040 610	3,750 1,050	2,500 840	2,000	3,600	6,070	19,200	21,800