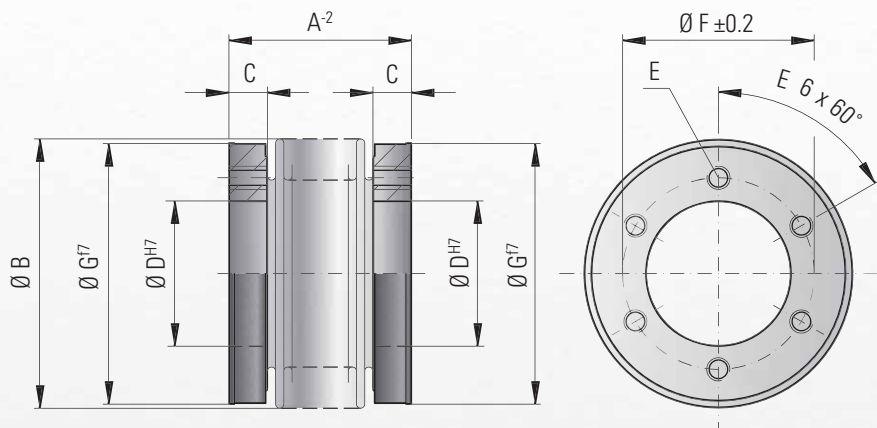


Optional:



MODEL BK1

BACKLASH-FREE, TORSIONALLY STIFF METAL BELLOWS COUPLINGS



Ordering example

BK1/ 150 / 62 / XX

Model
Series / Nm
Overall length mm
Non standard e.g. stainless steel



with flange mounting

Features:

- special design applications
- available with custom or standard flanges

Material:

BelloWS made from highly flexible, high grade stainless steel; flanges made from steel

Design:

The flanges have six threaded mounting holes and the ID and OD are concentrically machined to ISO H7/f7 tolerances; flanges with custom bore diameters, mounting threads, and bolt circles are available upon request.

Absolutely backlash free due to frictional connection

Temperature range:

-30 to +100° C (-22 to +212° F)

Speeds:

Up to 10,000 rpm; in excess of 10,000 rpm with finely balanced version (up to G = 2.5)

Service life:

Maintenance free with infinite life when operated within the technical specifications

Brief overloads:

Acceptable up to 1.5x the rated torque

Tolerance:

Recommend H7/f7

Non standard applications:

Custom designs with various tolerances, materials, bolt circles, dimensions, etc. available upon request

Model BK 1		Series																			
		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 ± 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 kgm²)	J _{total}	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  ± (mm)	Max. values	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	0.35	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	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	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	

* 1 Nm = 8.85 in lbs