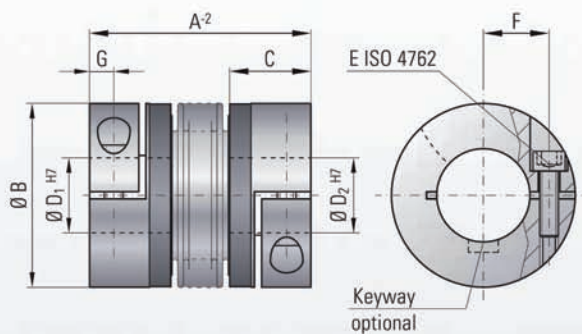




MODEL BK2

TECHNICAL SPECIFICATIONS



Ordering example

BK2 / 80 / 94 / 20 / 22 / XX

Model
Series / Nm
Overall length
Ø D1 H7
Ø D2 H7
Non standard e.g. stainless steel



Properties:

- easy to mount
- suited for space restricted installations
- low moment of inertia

Material:

Bellows made of highly flexible high-grade stainless steel, hub material: see table below

Design:

With a single radial clamping screw per hub ISO 4762. Any imbalance of the clamping hubs is compensated with balancing bores located on the inside of the hub.

Temperature range:

-30 to +120° C (3.6 F - 270 F)

Speeds:

Up to 10,000 rpm, in excess of 10,000 with a finely balanced version.

Service life:

These couplings are maintenance-free if the technical limits are not exceeded.

Backlash:

Absolutely backlash-free due to frictional clamped connection.

Brief overloads:



Acceptable up to 1.5 times the value specified.

Tolerance:

On the hub/shaft connection 0.01 to 0.05 mm

Non-standard application:

Custom designs with varied tolerances, keyways, non-standard material and bellows are available upon request.

Model BK 2	Series																		
	15		30		60		80		150		200		300		500		800		1500
Rated torque (Nm)	T_{KN}	15	30	60	80	150	200	300	500	800	1500								
Overall length (mm)	A	59 66	69 77	83 93	94 106	95 107	105 117	111 125	133 146	140	166								
Outer diameter (mm)	B	49	55	66	81	81	90	110	124	134	157								
Fit length (mm)	C	22	27	31	36	36	41	43	51	45	55								
Inner diameter possible from Ø to Ø H7 (mm)	D_h	8-28	10-30	12-32	14-42	19-42	22-45	24-60	35-60	40-75	50-80								
ISO 4762 fastening screw		M5	M6	M8	M10	M10	M12	M12	M16	2xM16*	2xM20*								
Tightening torque of the fastening screw (Nm)	E	8	15	40	50	70	120	130	200	250	470								
Distance between centers (mm)	F	17	19	23	27	27	31	39	41	2x48	2x55								
(mm)	G	6.5	7.5	9.5	11	11	12.5	13	16.5	18	22.5								
Moment of inertia (10^{-3} kgm ²)	J_{total}	0.07 0.08	0.14 0.15	0.23 0.26	0.65 0.67	2.5 3.2	4.5 5.4	8.5 10.5	17.3 19.6	24.3	49.2								
Hub material (standard) (steel on request)		Al	Al	Al	Al	steel	steel	steel	steel	steel	steel								
Approx. weight (kg)		0.15	0.3	0.4	0.8	1.7	2.5	4	7.5	7	12								
Torsional stiffness (10^3 Nm/rad)	C_T	20 15	39 28	76 55	129 85	175 110	191 140	450 350	510 500	780	1304								
axial  (mm)	C_a	1 2	1 2	1.5 2	2 2	3 2	2 3	2 3	2.5 3.5	2.5 3.5	3.5 3.5								
lateral  (mm)		0.15 0.2	0.2 0.25	0.2 0.25	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								
axial spring stiffness (N/mm)	C_a	25 15	50 30	72 48	48 32	82 52	90 60	105 71	70 48	100	320								
lateral spring stiffness (N/mm)	C_r	475 137	900 270	1200 420	920 290	1550 435	2040 610	3750 1050	2500 840	2000	3600								

(1 Nm \approx 8.85 in lbs) / max. angular misalignment see BK 1 / * two screws each hub, 180° apart