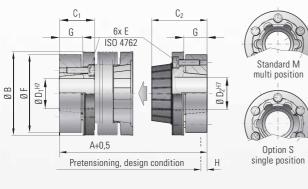


MODEL **BK6**

Press-fit, with conical sleeve

TECHNICAL SPECIFICATIONS



Material BK 6:

Bellows made of highly flexible, high-grade stain less steel; conical sleeves and tapered segment on bellows face are made of steel.

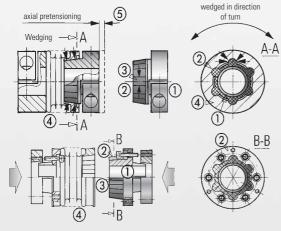
Tapered segment on hub face: glass-fiber rein forced plastic deposited onto a steel hub.

Design BK 6:

One side concial sleeve with 6 fastening screws ISO 4762 and 3 draw-off threads. One side with backlash-free tapered concial sleeve with pressfit connection and 3 draw-off screws

axial mounting for space constrained applications

Design details BK 5 / BK 6



Due to the press-fit design the complete drive unit can be simply pulled away when servicing is required.

Six self-centering, tapered drive projections (2) have been formed into the plastic conical element, which has been deposited onto an aluminium hub (1). The six axially arranged projections are configured conically in a longitudinal direction (3). The mating piece consits of a metal bellows with a tapered female mounting element (4). Absolutly backlash-free torque transmission is ensured due to the axial pretensioning (5) of the metal bellows during its mounting. This slight pretensioning has no negative influence on the operation of the metal bellows coupling or of the shaft bearing.

Material description of the plastic segment:

This is a glass-fiber reinforced plastic of the duromer group. With a glass-fiber content of 65% it achives a strength and rigidity roughly that of steel.

Madal DV C		Series													
Model BK 6			15		0	60		150		30	300		00	800	1500
Rated toque (Nm)	T _{KN}	15		3	0	6	0	15	150		300		00	800	1500
Overall length (inserted) (mm)	Α	58	65	68	76	79	89	97	109	113	127	132	145	140	158
Outer diameter (mm)	В	49		55		66		81		1	110		24	133	157
Fit length (mm)	C ₁	13.5		16.5		18		23.5		27		32		42	53
Fit length (mm)	C_2	29		34		39		49.5		59		68		74	90.5
Inner diameter from Ø to Ø H7 (mm)	D ₁	10-22		12-24		12-32		15-40		24-56		30-60		40-62	50-75
Inner diameter from Ø to Ø H7 (mm)	D_2	10-22		12-24		12-32		15-40		24-56		30-60		40-62	50-75
ISO 4762 screw	- F	M4		M5		M5		M6		M8		M8		M10	M12
Tightening torque (Nm)		3.5		6.5		8		12		30		32		55	110
Diameter of clamping cone (mm)	F	46.5		51		60		74		102		114		126	146
(mm)	G	9.5		10.5		11.5		17.5		20		23		27	32
Pretensioning approx. (mm)	Н	0.2 up to 1.0		0.5 up to 1.0		0.5 up to 1.5		0.5 up to 1.5		0.5 up to 1.5		1.0 up to 2.0		1.0 up to 2.0	0.5 up to 1.5
Axial recovery force of coupling max. (N)		20	12	50	30	70	45	82	52	157	106	140	96	400	650
Moment of inertia (10 ⁻³ kgm ²)	J_{total}	0.1	0.12	0.2	0.25	0.4	0.45	2.0	2.5	5.4	6.1	8.4	9.1	19.5	44
Approx. weight (kg)		0.3	0.32	0.5	0.52	0.82	0.84	1.6	1.7	4.1	4.2	6.0	6.3	9.4	16.2
Torsional stiffness (10 3 Nm/rad)	C_{T}	10	8	20	14	38	28	88	55	225	175	255	245	400	660
axial* (mm)	Max.	0.5	1	0.5	1	0.5	1	1	2	1.5	2	2.5	3.5	3	2
lateral (mm)	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	0.35
Lateral spring stiffness (N/mm)	C _r	475	137	900	270	1200	420	1550	435	3750	1050	2500	840	2000	3600

(1Nm ≙ 8.85 in lbs)

Higher torques on request. Missing bellow values see BK1

^{*} allowed following maximum pretensioning