



SKB-KP SERIES DIRECT DRIVE BELLOWS SAFETY COUPLING



Major Features

- Bellows safety coupling with radial clamping hubs.
- Upon disengagement, coupling will re-engage automatically at only one point per revolution and retain the drive's reference point.
- Bellow compensates for axial, lateral and angular misalignment.
- Adjustable disengagement torque.

Material

- Stainless steel bellow; aluminum and steel hubs; steel safety element

Technical data/Dimensions

Size SKB-KP	Disengagement Torque Range		Moment of Inertia	Torsion Resistance	Max. Lateral Misalign- ment	Mass	Screw Size	Torque to Tighten Screws		Outer Diameter	Length	Switch- ing Distance	Bore Range $\phi D1^*$		Bore Range $\phi D2^{**}$	
	Nm (lb-in)		$10^{-3}kgm^2$ (lb-in ²)	Nm/ arcmin (lb-ft/Deg)	mm (inch)	kg (lbs)		*Al Hub Nm (lb-in)	**Steel Hub Nm (lb-in)				mm (inch)	mm (inch)	mm (inch)	mm (inch)
SKB-KP-6	2	6	0.13	2.6	0.15	0.45	M5	7	10	52.5	89	0.9	6	21	7	16
	(18)	(53)	(0.44)	(115.1)	(0.006)	(1)		(62)	(89)	(2.067)	(3.504)	(0.035)	(0.236)	(0.827)	(0.276)	(0.63)
SKB-KP-12	6	12	0.13	2.6	0.15	0.45	M5	7	10	52.5	89	0.9	8	21	11	16
	(53)	(106)	(0.44)	(115.1)	(0.006)	(1)		(62)	(89)	(2.067)	(3.504)	(0.035)	(0.315)	(0.827)	(0.433)	(0.63)
SKB-KP-15	8	15	0.22	9	0.2	1	M6	14	18	69	94.5	1.2	9	30	11	25.4
	(71)	(133)	(0.75)	(398.3)	(0.008)	(2.2)		(124)	(159)	(2.717)	(3.72)	(0.047)	(0.354)	(1.181)	(0.433)	(1)
SKB-KP-30	13	30	0.22	9	0.2	1	M6	14	18	69	94.5	1.2	12	30	15	25.4
	(115)	(266)	(0.75)	(398.3)	(0.008)	(2.2)		(124)	(159)	(2.717)	(3.72)	(0.047)	(0.472)	(1.181)	(0.591)	(1)
SKB-KP-45	22	45	0.22	9	0.2	1	M6	14	18	69	94.5	1.2	16	30	18	25.4
	(195)	(399)	(0.75)	(398.3)	(0.008)	(2.2)		(124)	(159)	(2.717)	(3.72)	(0.047)	(0.63)	(1.181)	(0.709)	(1)
SKB-KP-60	25	60	1.5	20	0.2	1.9	M8	35	40	88	107	1.6	15	38	18	35
	(221)	(531)	(5.08)	(885.1)	(0.008)	(4.2)		(310)	(354)	(3.465)	(4.213)	(0.063)	(0.591)	(1.496)	(0.709)	(1.378)
SKB-KP-100	40	100	1.5	20	0.2	1.9	M8	35	40	88	107	1.6	20	38	22	35
	(354)	(886)	(5.08)	(885.1)	(0.008)	(4.2)		(310)	(354)	(3.465)	(4.213)	(0.063)	(0.787)	(1.496)	(0.866)	(1.378)
SKB-KP-150	60	150	1.5	20	0.2	1.9	M8	35	40	88	107	1.6	25	38	26	35
	(531)	(1329)	(5.08)	(885.1)	(0.008)	(4.2)		(310)	(354)	(3.465)	(4.213)	(0.063)	(0.984)	(1.496)	(1.024)	(1.378)
SKB-KP-230	80	230	5.5	28	0.2	4	M10	65	80	115	132	1.8	25	43	25	44
	(709)	(2037)	(18.8)	(1239.1)	(0.008)	(8.8)		(575)	(708)	(4.528)	(5.197)	(0.071)	(0.984)	(1.693)	(0.984)	(1.732)
SKB-KP-330	130	330	5.5	28	0.2	4	M10	65	80	115	132	1.8	32	43	32	44
	(1151)	(2923)	(18.8)	(1239.1)	(0.008)	(8.8)		(575)	(708)	(4.528)	(5.197)	(0.071)	(1.26)	(1.693)	(1.26)	(1.732)
SKB-KP-500	200	500	14	52	0.2	7.5	M12 M14	115	220	137	152.5	2.5	35	55	35	58
	(1772)	(4429)	(47.5)	(2301.3)	(0.008)	(16.5)		(1018)	(1947)	(5.394)	(6.004)	(0.098)	(1.378)	(2.165)	(1.378)	(2.283)
SKB-KP-800	350	800	16	106	0.2	8	M12 M14	115	220	137	167	2.5	42	75	42	58
	(3100)	(7086)	(54.24)	(4691)	(0.008)	(17.6)		(1018)	(1947)	(5.394)	(6.575)	(0.098)	(1.654)	(2.953)	(1.654)	(2.283)

Coupling must be selected so nominal torque is higher than highest operational torque of the application (i.e., during acceleration).
Bore diameters smaller than the minimum are possible but reliable transmission of nominal torque cannot be guaranteed.

*Bellows side of coupling

**Safety element

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