



► KPS SERIES BELLOWS/SHAFT COUPLING



Major Features

- Bellows coupling with radial clamping hubs.
- Special plug-in design with EASY Clamp System for easy installation.
- Higher torsional stiffness and shorter overall length.
- Tightening only one screw per hub locks the coupling free of backlash.

Material

- Stainless steel bellows; aluminum hubs; steel shaft

Technical data/Dimensions

Size KPS	Nominal Torque	Moment of Inertia	Torsion Resistance	Max. Lateral Misalignment	Mass	Screw Size Hub / Shaft	Torque to Tighten Screws Hub / Shaft	Outer Diameter	Length	Bore Range		Shaft Range	
	Nm (lb-in)	10 ⁻³ kgm ² (lb-in ²)	Nm/arcmin (lb-ft/Deg)	mm (inch)	kg (lbs)		Nm (lb-in)	mm (inch)	mm (inch)	min. mm (inch)	max. mm (inch)	min. mm (inch)	max. mm (inch)
KPS-2	2	0.01	0.4	0.1	0.03	M3 / M3	2 / 4	24.5/27.5	38	3	10/14	8	12
	(18)	(0.03)	(18)	(0.004)	(0.07)		(17 / 35)	(0.965)/(1.083)	(1.496)	(0.118)	(0.394)/(0.551)	(0.315)	(0.472)
KPS-8	8	0.02	1.9	0.15	0.1	M5 / M5	8 / 8	39.5/44.5	61	6	19/21	13	18
	(71)	(0.07)	(84)	(0.006)	(0.22)		(71 / 71)	(1.555)/(1.752)	(2.402)	(0.236)	(0.748)/(0.827)	(0.512)	(0.709)
KPS-20	20	0.13	7	0.2	0.3	M6 / M6	14 / 14	56	73	9	30	15	20
	(177)	(0.44)	(309)	(0.008)	(0.66)		(124 / 124)	(2.205)	(2.874)	(0.354)	(1.181)	(0.591)	(0.787)
KPS-60	60	0.28	13	0.2	0.4	M8 / M8	30 / 30	66	78	18	34	20	28
	(531)	(0.95)	(575)	(0.008)	(0.88)		(266 / 266)	(2.598)	(3.071)	(0.709)	(1.339)	(0.787)	(1.102)
KPS-170	170	0.94	27	0.2	0.8	M10 / M10	65 / 65	82	92	22	43	25	32
	(1506)	(3.21)	(1195)	(0.008)	(1.76)		(575 / 575)	(3.228)	(3.622)	(0.866)	(1.693)	(0.984)	(1.26)
KPS-400	400	1.95	64	0.2	1.4	M12 / M12	115 / 100	101	102	34	55	30	38
	(3543)	(6.65)	(2832)	(0.008)	(3.08)		(1018 / 885)	(3.976)	(4.016)	(1.339)	(2.165)	(1.181)	(1.496)
KPS-550	550	3.9	96	0.2	2	M12 / M12	115 / 115	122	116	38	75	35	48
	(4872)	(13.3)	(4248)	(0.008)	(4.4)		(1018 / 1018)	(4.803)	(4.567)	(1.496)	(2.953)	(1.378)	(1.89)

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.