

Metal Bellows Coupling I Series KPS

- 4-corrugation bellows
- simple installation with lateral EASY-clamping hub
- expanding cone hub for direct mounting

technical data:

KPS size	T _N [Nm]	moment of inertia [10 ⁻³ kgm ²]	torsional stiffness [Nm/arcmin]	max. shaft misalignment (mm)		axial spring rate [N/mm]	lateral spring rate [N/mm]	mass approx. [kg]	tightening torque of screws f / i [Nm]
2	2	0,01	0,4	0,25	0,1	32	100	0,03	2 / 2
8	8	0,026	1,9	0,5	0,15	20	90	0,16	8 / 8
20	20	0,13	7	0,5	0,2	70	480	0,38	14 / 14
60	60	0,25	13	0,6	0,2	70	650	0,5	35 (30)* / 35
170	170	0,71	27	0,8	0,2	100	1000	0,9	65 (50)* / 65
400	400	1,9	64	0,7	0,2	135	1500	1,5	115 (90)* / 115
600	600	4,1	107	0,7	0,2	145	3000	2,5	180 (140)* / 115

(*) note: reduced tightening torque for bigger hub bore diameter - see also Ø D 1max!

material:

bellows: stainless steel

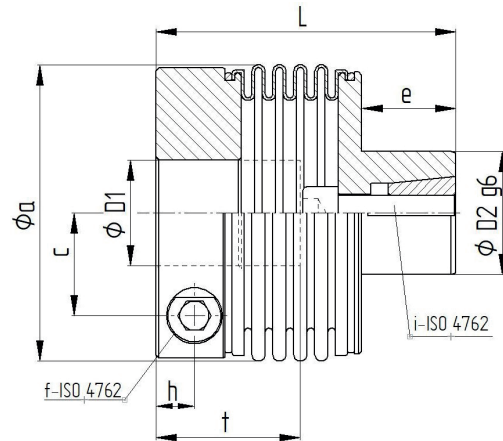
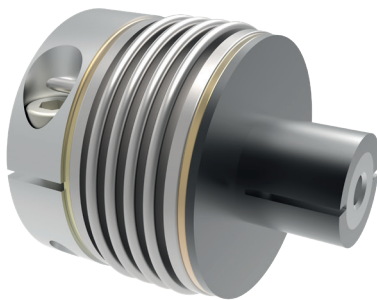
hubs: high-tensile aluminum

expanding cone: heat-treated steel

screws: ISO 4762 / 12.9

temperature range:

-40°C up to +200°C



Dimensions [mm]: length dimensions according to DIN ISO 2768 cH

KPS	Ø a	c	e	f/i	h	L	tmin	tmax	Ø D1		Ø D2	
									min	max	min	max
2	24,5 [27,5]	7,5	10	M 3	4,4	38	10,5	18	3	10 [14]	8	12
8	39,5 [44,5]	13	20	M 5	6	61	14	31,5	6	19 [24]	13	20
20	56	19	23	M 6	8	71,5	17	34	8	32	15	24
60	66	22	26	M 8	9	78	19	36	13	28 (35)	20	28
170	82	28,5	30	M 10	11,5	92	23	43	18	32 (43)	24	35
400	101	35	32	M 12	13	102	28	50	28	42 (55)	32	42
600	122	42	42	M 14	16	120,5	30	55	32	55 (68)	35	48

note: The corresponding shaft bores for the expansion cone pin ØD2 g6 with manufacturing tolerance H7.
Size KPS2 / KPS 8 without EASY version available with larger hub bores [see square brackets]

mounting instructions: To avoid damage to the metal bellows during installation avoid, the axial assembly force should not act on the clamping hub, but on the conical screw are exercised.

application example: compact and integrated attachment of a KPS

order example: KPS 20 - D1 = 15^{H7} - D2 = 20 g6

