

## Metal Bellows Couplings I Series KP - Ex

- 4-corrugation bellows • short design • high torsional stiffness
- simple installation with lateral EASY-clamping hub



technical data:

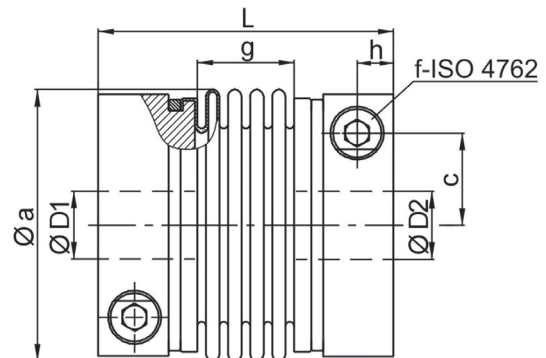
KP - Ex Size	T <sub>N</sub> [Nm]	moment of inertia [10 <sup>-3</sup> kgm <sup>2</sup> ]	torsional stiffness [Nm/arcmin]	max. shaft misalignment [mm]		axial spring rate [N/mm]	lateral spring rate [N/mm]	tightening torque screws [Nm] (*)	RPM n <sub>max</sub> [1/min]
				axial±	lateral				
25	12,5	0,064	4	0,35	0,1	36	180	8 (3)	23000
35	17,5	0,13	9	0,35	0,14	70	450	14 (8)	20000
60	30	0,27	14	0,4	0,14	70	650	30 (15)	17000
100	50	0,35	20	0,4	0,14	110	1200	30 (15)	16000
170	85	0,76	28	0,55	0,14	98	1000	50 (20)	14000
270	135	2	52	0,55	0,14	90	1300	90 (25)	11000
400	200	2,15	74	0,5	0,14	135	1500	90 (25)	11000
600	300	5	106	0,5	0,14	140	2800	140 (25)	9000
900	450	9	156	0,55	0,14	210	3050	140 (25)	8500

temperature range: -20°C bis +100°C

material: bellows: 1.4571 | hubs: 3.1325 | screws: 1.7220 with zinc flake coating | wire: CW508L

**note:**

The couplings are supplied with H7 finished bores as standard.  
G6 is recommended for the shaft fit.



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

KP - Ex	Øa	c	f FK 12.9	g	h	L	L*	mass ~ [kg]	ØD1/2 min	ØD1/2 max
25	50	17	M5	24	6	58	-	0,18	13	28
35	56	19	M6	21	8	61	72	0,3	13	32
60	66	22	M8	23	9	67	77	0,4	17	35
100	71	25	M8	23	9	68	-	0,5	18	38
170	82	28,5	M10	23	11,5	80	92	0,8	23,5	43
270	101	35	M12	29	13	87	93	1,3	32,5	55
400	101	35	M12	33	13	91	97	1,4	39	55
600	122	42	M14	36	16	104	-	2,3	42	68
900	133	47	M14	37	18,5	127	-	3,3	52	75

note: L\* ≙ alternative installation length with larger clamping hub width

order example: KP - Ex 170 - D1 = Ø 28<sup>H7</sup> D2 = 35<sup>H7</sup>  
 KP - Ex 170 | 92 - D1 = 32<sup>H7</sup> D2 = 42<sup>H7</sup>