

Metal Bellows Couplings I Series KPH / KMH / KRH - Ex

- simple installation • split-hub design • backlash-free • torsionally stiff • flexible
- stainless design • variable length



technical data:

KPH/ KMH/KRH - Ex size series	nominal torque [Nm]	moment of inertia [10 ⁻³ kgm ²]	torsional stiffness [Nm/arcmin]			max. lateral shaft misalignment [mm]			axial spring rate [N/mm]			lateral spring rate [N/mm]			RPM n _{max} [1/min]
			KPH	KMH	KRH	KPH	KMH	KRH	KPH	KMH	KRH	KPH	KMH	KRH	
						KPH	KMH	KRH	KPH	KMH	KRH	KPH	KMH	KRH	
10	5	0,02	1,7	1,1	-	0,11	0,18	-	70	45	-	224	60	-	28000
40	20	0,2	9	5,8	10	0,14	0,18	0,14	70	51	170	450	190	170	17000
80	40	0,5	14	8,7	12	0,14	0,21	0,21	70	49	95	650	260	80	13000
200	100	1,2	25	17	30	0,14	0,21	0,21	98	80	120	1000	470	120	11000
400	200	3	74	47	80	0,14	0,21	0,21	135	100	260	1500	640	260	9500
900	450	8	156	105	-	0,14	0,21	-	210	145	-	3050	1000	-	7000

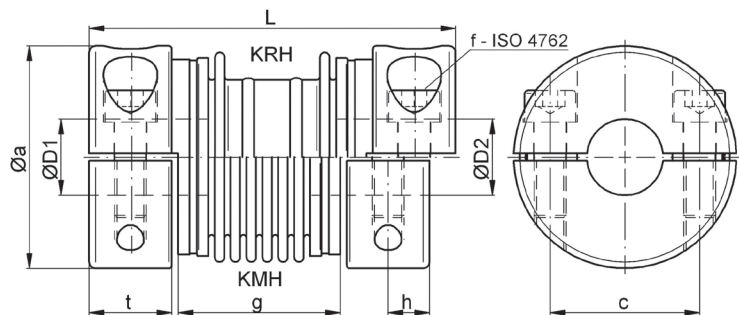
temperature range: -20°C up to +100°C

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

Three design variants: Type KPH-EX with 4-wave bellows / Type KMH-EX with 6-wave bellows / Type KRH-EX with 2x 1-wave bellows.

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

KPH/ KMH/KRH - Ex size	Øa* [mm]	c [mm]	f-TA [Nm] FK 12.9	g** [mm]			h [mm]	L [mm]			mass ~ [kg]	ØD1/2 min. (H7) [mm]	ØD1/2 max. (H7) [mm]
				KPH	KMH	KRH		KPH	KMH	KRH			
10	35	21	M5-8	33	43	-	9	73	83	-	0,1	7,8	15
40	58	36	M8-30	39	48	51	13	95	104	107	0,5	11,8	25
80	75	47	M10-50	41	51	59	13	97	107	115	0,8	16,3	35
200	89	56	M12-90	45,5	57,5	73	14	106	118	134	1,2	24,8	42
400	109	72	M14-140	52,5	67,5	84	15	117	132	149	2	31,2	55
900	132	94	M14-140	62	78	-	16	132	148	-	3,3	41,6	75

*For outer diameter Øa, the interference contour of the screw head must be taken into account.

**The distance between the input and output shafts must be greater than dimension g!

order example: KPH - Ex 80 - D1 = 24^{H7} D2 = 30^{H7}
KMH - Ex 400 - D1 = 38^{H7} D2 = 48^{H7}