

Metal Bellows Couplings I Series KG-HS-VA-Ex

- Stainless steel metal bellows coupling, high-speed version for highest speeds
- Rotationally symmetrical clamping hub for optimal balance quality

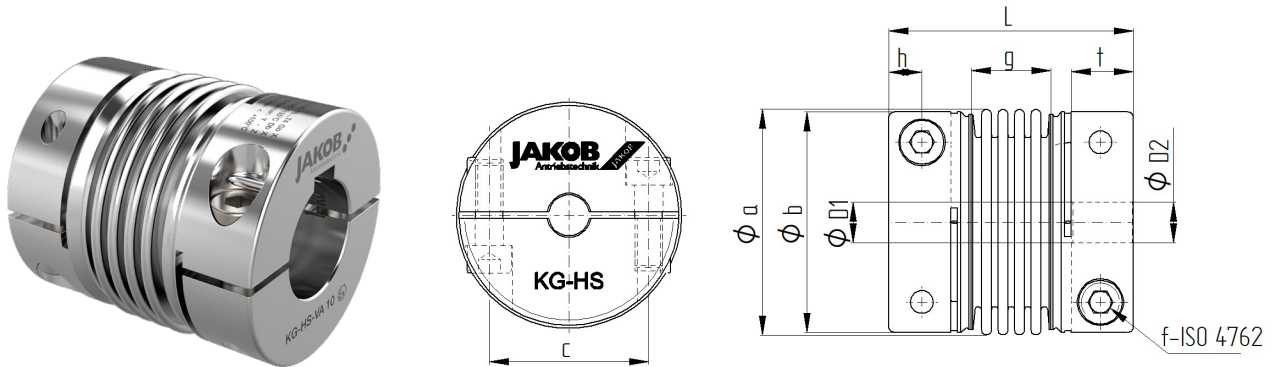
stainless steel



technical data:

KG-HS-VA-Ex size	T _N [Nm]	moment of inertia [10 ⁻³ kgm ²]	torsional stiffness [Nm/arcmin]			max. shaft misalignment [mm]						axiale spring rate [N/mm]			lateral spring rate [N/mm]			RPM n _{max} [1/min]
			2W	4W	6W	axial±			lateral			2W	4W	6W	2W	4W	6W	
			2W	4W	6W	2W	4W	6W	2W	4W	6W	2W	4W	6W	2W	4W	6W	
5	2,5	0,006	1,3	0,9	0,6	0,14	0,21	0,35	0,04	0,07	0,14	135	75	45	2500	400	140	80.000
10	5	0,035	3,3	2,1	1,3	0,21	0,28	0,35	0,07	0,11	0,18	150	85	60	2300	400	130	57.000

temperature range: -20°C up to 100°C
 material: hub: 1.4301, bellows: 1.4571, screw: A4-80



note:

Connection of bellows and hubs by micro-plasma welding process.
 Three design variants: Type KPH with 4-wave bellows / Type KMH with 6-wave bellows / Type KRH with 2x 1-wave bellows.

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

KG-HS-Va-Ex size	Ø a [mm]	Ø b [mm]	c [mm]	f-TA A4-80	g [mm]			h [mm]			L [mm]	t [mm]	mass [kg]	Ø D1/2 (H7) [mm]	
					2W	4W	6W	2W	4W	6W				min	max
5	24		16	M3 - 2	6	11	14	5	10	33	38	41	0,07	7,8	12
10	34		22	M5 - 8	11	16	23	6,5	13	48	53	60	0,21	10,4	16

Note: We recommend additional balancing at operating speeds above approximately 0.3 x n_{max}.
 This can achieve a balance grade of G 2.5.

Øb: Interfering edge - screw head

- Other sizes available on request

order example: KG-HS-VA-Ex 5 / 4W - D1 = 8^{H7} D2 = 10^{H7}
KG-HS-VA-Ex 10 / 6W - D1 = 12^{H7} D2 = 14^{H7}